# Public Review Draft
# Initial Study/Mitigated Negative Declaration

## McDonald's at Santa Clara Avenue Project


Prepared for

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January 2024

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| K | Transportation Analysis |
| L | VMT Screening Evaluation |
| M | AB 52 Tribal Consultation |

## ACRONYM LIST

| | |
|---|---|
| AAM | Annual Arithmetic Mean |
| AB | Assembly Bill |
| ACM | Asbestos Containing Material |
| ACCM | Asbestos Containing Construction Material |
| ADT | Average Daily Trips |
| APN | Orange County Assessor's Parcel Numbers |
| AQMP | Air Quality Management Plan |
| BMP | Best Management Practice |
| CAAQS | California Ambient Air Quality Standards |
| CalEEMod | California Emissions Estimator Model |
| CAL FIRE | California Department of Forestry and Fire Prevention |
| CalGEM | California Geologic Energy Management Division |
| CALGreen Code | California Green Building Standards Code |
| Caltrans | California Department of Transportation |
| CA MUTCD | California Manual on Uniform Traffic Control Devices |
| CAP | Santa Ana Climate Action Plan |
| CARB | California Air Resources Board |
| CBC | California Building Code |
| CCR | California Code of Regulations |
| CDFW | California Department of Fish and Wildlife |
| CEC | California Energy Commission |
| CEQA | California Environmental Quality Act |
| CF | cubic feet |
| CNEL | Community Noise Equivalent Level |
| CO | carbon monoxide |
| $CO_2$ | carbon dioxide |
| Cortese List | Hazardous Waste and Substances Site List |
| CUP | Conditional Use Permit |
| cy | cubic yards |
| dB | decibel |
| dBA | A-weighted decibel scale |
| DPM | diesel particulate matter |
| DTSC | Department of Toxic Substances Control |
| EIR | Environmental Impact Report |
| EMFAC | EMissions FACtor |
| EO | Executive Order |
| ESA | Environmental Site Assessment |
| EV | electric vehicle |
| FEMA | Federal Emergency Management Agency |
| FMMP | Farmland Mapping and Monitoring Program |
| ft | feet |
| FTA | Federal Transportation Administration |
| GC | General Commercial |
| GHG | greenhouse gas |
| HCP | Habitat Conservation Plan |

| | |
|---|---|
| HVAC | heating, ventilation, and air conditioning |
| I | Interstate |
| in/sec | inches per second |
| IS | Initial Study |
| kBTU | One thousand British Thermal Units |
| km | kilometer |
| LACM | Natural History Museum of Los Angeles County |
| LDN | day-night average sound level |
| $L_{eq}$ | energy average |
| $L_{eq}$ dBA | Equivalent Continuous Noise Level in A-weighted decibels |
| $L_{max}$ | maximum noise level |
| $L_{min}$ | minimum noise level |
| LID | Low Impact Development |
| LST | localized significance threshold |
| MBTA | Migratory Bird Treaty Act |
| MET | Metropolitan Water District of Southern California |
| mg | Million Gallons |
| mgd | million gallons of wastewater per day |
| $mg/m^3$ | milligrams per cubic meter |
| MM | Mitigation Measures |
| MND | Mitigated Negative Declaration |
| mph | miles per hour |
| MPO | metropolitan planning organization |
| MRZs | Mineral Resources Zones |
| MRZ-1 | Mineral Resource Zone-1 (an area with no significant mineral deposits) |
| MRZ-2 | Mineral Resource Zone-2 (an area with significant mineral deposits) |
| MRZ-3 | Mineral Resource Zone-3 (an area containing known mineral resources of undetermined significance) |
| msl | mean sea level |
| $MTCO_2e$ | metric tons of carbon dioxide equivalent |
| $MTCO_2e/yr$ | metric tons of carbon dioxide equivalent per year |
| NAAQS | National Ambient Air Quality Standards |
| NAHC | Native American Heritage Commission |
| NCCP | Natural Community Conservation Plan |
| NPDES | National Pollutant Discharge Elimination System |
| NO | nitric oxide |
| $NO_2$ | nitrogen dioxide |
| NOx | nitrogen oxide |
| $O_3$ | ozone |
| OCFA | Orange County Fire Authority |
| OCSD | Orange County Sanitation Districts |
| OCTA | Orange County Transportation Agency |
| OEHHA | Office of Environmental Health Hazard Assessment |
| OPR | Office of Planning and Research |

| | |
|---|---|
| OSHA | Federal Occupational Safety and Health Regulations |
| PEIR | Program Environmental Impact Report |
| PM2.5 | fine particulate matter with a diameter of 2.5 microns or less |
| PM10 | respirable particulate matter with a diameter of 10 microns or less |
| ppm | parts per million |
| ppv | peak particle velocity |
| RCP | Regional Comprehensive Plan |
| REC | recognized environmental condition |
| rms | root mean square |
| RR | Regulatory Requirements |
| RTP/SCS | Regional Transportation Plan/Sustainable Communities Strategy |
| SAMC | City of Santa Ana Municipal Code |
| SAPD | Santa Ana Police Department |
| SB | Senate Bill |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SCCIC | South-Central Coastal Information Center |
| SCE | Southern California Edison |
| SCGC | Southern California Gas Company |
| SF | square feet |
| SIP | State Implementation Plan |
| SLF | Sacred Lands File |
| $SO_2$ | sulfur dioxide |
| SoCAB | South Coast Air Basin |
| SR | State Route |
| SWRCB | State Water Resources Control Board |
| TACs | toxic air contaminants |
| T-Bact | best available control technology for toxics |
| TCP | Traffic Control Plan |
| $\mu g/m^3$ | micrograms per cubic meter |
| Qyf | young alluvial deposit |
| USEPA | U.S. Environmental Protection Agency |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| UWMP | Urban Water Management Plan |
| VHFHSZ | Very High Fire Hazard Severity Zone |
| VMT | vehicle miles traveled |
| VOC | volatile organic compound |
| WQMP | Water Quality Management Plan |

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# 1.0 INTRODUCTION

## 1.1 PURPOSE OF THE INITIAL STUDY

The purpose of this Initial Study (IS) is to (1) describe the proposed McDonald's at Santa Clara Avenue Project (hereinafter referred to as the "Project"), to be constructed in the City of Santa Ana and (2) provide an evaluation of potential environmental impacts associated with the Project's construction and operation. If potentially significant impacts are identified, mitigation measures are recommended to lessen or avoid impacts on the environment. The Project involves re-development of a 0.82-acre site with a McDonald's restaurant building and drive-thru. This IS was prepared pursuant to the California Environmental Quality Act (CEQA), as amended (Section 21000 et. seq. of the *Public Resources Code*) and in accordance with the State CEQA Guidelines (Title 14, Section 15000 et. seq. of the *California Code of Regulations*).

Pursuant to Section 15367 of the State CEQA Guidelines, the City of Santa Ana (hereinafter referred to as the "City") is the lead agency for the Project. The lead agency is the public agency that has the principal responsibility for carrying out or approving a project that may have a significant effect on the environment. The City, as the lead agency, has the authority for Project approval and certification of the accompanying environmental documentation. In addition to addressing the potential environmental impacts that would result from the proposed Project, this IS/Mitigated Negative Declaration (MND) serves as the primary environmental document for future activities associated with the Project, including discretionary approvals requested or required for Project implementation.

The City of Santa Ana, as the Lead Agency, has reviewed and revised, as necessary, all submitted drafts and technical studies and has commissioned the preparation of this IS/MND to reflect its independent judgment. This IS/MND evaluates the potential environmental impacts of Project implementation; includes significance determinations from the environmental analyses; identifies regulatory requirements (RRs) to be incorporated into the Project; and sets forth mitigation measures (MMs) that will lessen or avoid potentially significant Project impacts on the environment.

## 1.2 CALIFORNIA ENVIRONMENTAL QUALITY ACT COMPLIANCE

In accordance with CEQA and the State CEQA Guidelines, an IS has been prepared for the proposed Project and its associated discretionary approvals. The IS indicates that the Project would have less than significant impacts with MMs required, and therefore, the Project requires the preparation of an IS/MND.

This IS/MND serves as the environmental document that presents the analysis of Project impacts on each of the environmental issue areas in the CEQA Environmental Checklist provided in Section 4.0. This document will serve to inform City decision makers, representatives of affected trustee and responsible agencies, and other interested parties of the potential environmental effects that may occur with approval and implementation of the proposed Project.

# 1.3 PROJECT SUMMARY

## 1.3.1 LOCATION

The approximate 0.82-acre Project site is located in the City of Santa Ana, in Orange County, California. The City of Santa Ana encompasses approximately 27.4 square miles in the northwestern area of Orange County, California. Adjacent cities include the City of Tustin to the east; the cities of Fountain Valley and Westminster to the west; the cities of Orange and Garden Grove to the north; and the cities of Irvine and Costa Mesa to the south. Refer to Exhibit 1, Regional Location and Local Vicinity.

The Project site is associated with the Orange County Assessor's Parcel Numbers (APN) 396-261-26, -37, and -38 located at 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The lots were legally merged per Voluntary Lot Merger No. 2023-02, dated June 20, 2023. The Project site is located north of East Santa Clara Avenue, east of the California Highway Patrol Office, south of commercial buildings and west of North Tustin Avenue. Refer to Exhibit 2, Aerial Photograph, Existing Site and Area Characteristics.

## 1.3.2 PROJECT PROPONENT

Donald Ellis
Stream Realty Partners, LP
3161 Michelson Drive, Suite 100
Irvine, CA 92612
(949) 203-3030

## 1.3.3 EXISTING GENERAL PLAN AND ZONING

**General Plan Land Use Designation:** General Commercial (GC)

**Zoning Classification: General** Agricultural (A1)

## 1.3.4 EXISTING SETTING

### Project Site

The square shaped Project site is currently developed with two single-story residential houses, two one-story detached garages, a pool, dirt areas and associated asphalt concrete paving along East Santa Clara Avenue. The eastern residence is approximately 3,000 square feet (SF) and the western residence is approximately 1,800 SF in size. Both existing residences on-site, including 2101 East Santa Clara Avenue and 2109 East Santa Clara Avenue, are currently vacant. The site is surrounded by an existing brick wall along the north, east, and west site boundaries. There are two existing driveways located along East Santa Clara Avenue, which provide individual access to each residential building and its associated garage. The site is fully developed and contains scattered ornamental trees, grasses, and

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# Regional Location and Local Vicinity

Exhibit 1

*McDonald's at Santa Clara Avenue Project*

N W E S

2,000 1,000 0 2,000 Feet

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# Aerial Photograph

Exhibit 2

*McDonald's at Santa Clara Avenue Project*

N W E S

200 100 0 200 Feet

PSOMAS

(Rev: 7-20-2023 PLO) R:\Projects\SAN05\3SAN050100\Graphics\ISMND\ex_Aerial.pdf

shrubs. Existing landscaped area equates to 18,970 SF, and no areas with native vegetation or habitat are observed on the site.

**Surrounding Land Uses**

The Project site is located within a highly urbanized portion of the City of Santa Ana, which primarily includes a mix of commercial/retail and low-density residential uses. The Project site is bound by East Santa Clara Avenue to the south; a California Highway Patrol Office to the west; commercial businesses (Stater Brothers and Pizza Hut) to the north; and a commercial business (Del Taco) and North Tustin Avenue to the east. Other dominant land uses within the Project vicinity include multi-family apartments located north and south of the site; East Santa Ana Cemetery located to the west; commercial buildings located to the east; and the Plumfield Preschool and Kindergarten located to the south.

### 1.3.5 PROPOSED DEVELOPMENT

The Project involves demolition and removal of the existing residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development. The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot and landscaping. The Project would request a Conditional Use Permit (CUP), required to allow a drive-thru eating establishment and a second CUP to allow for after-hours operations between 12 AM to 5 AM located within 150 feet of a residential property. The Project also includes an Amendment Application (i.e., Zone Change) to change the zoning classification to C5 (Arterial Commercial).

## 1.4 SUMMARY OF FINDINGS

Based on the environmental checklist form prepared for the Project and supporting environmental analysis (Section 4.0), the proposed Project would have no impact or less than significant impacts in all topics.

According to the State CEQA Guidelines, it is appropriate to prepare an IS/MND for the proposed Project because there are no impacts or the impacts are less than significant with mitigation incorporated.

## 1.5 INTENDED USES OF THIS DOCUMENT

This IS/MND has been prepared to determine the appropriate level of environmental documentation required for the proposed project pursuant to CEQA. This document will also serve as a basis for soliciting comments and input from members of the public and public agencies regarding the proposed project.

The Draft IS/MND will be circulated for a minimum 20 days, during which comments concerning the analysis should be sent to:

City of Santa Ana
Planning Division
Attention: Pedro Gomez, AICP
Senior Planner
20 Civic Center Plaza, Ross Annex M-20
Santa Ana, CA 92701
PGomez@santa-ana.org

## 1.6 ORGANIZATION OF THE INITIAL STUDY

The IS/MND is organized into sections, as described below.

- **Section 1.0: Introduction.** This section provides an introduction, Project summary, and overview of the conclusions in the IS/MND.
- **Section 2.0: Project Location and Environmental Setting.** This section provides a brief description of the Project location, relevant background information, and a description of the existing conditions of the Project site and vicinity.
- **Section 3.0: Project Description.** This section provides a description of the proposed Project, a statement of purpose and need, and necessary discretionary approvals.
- **Section 4.0: Environmental Checklist.** The completed Environmental Checklist Form from the State CEQA Guidelines provides an overview of the potential impacts that may or may not result from Project implementation. The Environmental Checklist Form also includes "mandatory findings of significance", as required by CEQA.
- **Section 5.0**: **List of Preparers.** This section identifies the list of preparers for the IS/MND.
- **Section 6.0: References.** This section identifies the references used to prepare the IS/MND.

# 2.0 PROJECT LOCATION AND ENVIRONMENTAL SETTING

## 2.1 PROJECT LOCATION

The approximate 0.82-acre Project site is located in the City of Santa Ana, in Orange County, California. The City of Santa Ana encompasses approximately 27.4 square miles in the northwestern area of Orange County, California. Adjacent cities include the City of Tustin to the east; the cities of Fountain Valley and Westminster to the west; the cities of Orange and Garden Grove to the north; and the cities of Irvine and Costa Mesa to the south. Refer to Exhibit 1, Regional Location and Local Vicinity.

The Project site is associated with the Orange County Assessor's Parcel Numbers (APN) 396-261-26, -37, and -38 located at 2101 and 2109 East I Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The lots were legally merged per Voluntary Lot Merger No. 2023-02, dated June 20, 2023. The Project site is located north of East Santa Clara Avenue, east of the California Highway Patrol Office, south of commercial buildings and west of North (N) Tustin Avenue. Refer to Exhibit 2, Aerial Photograph, Existing Site and Area Characteristics.

### 2.1.1 SITE ACCESS

Vehicular access to the Project site is currently provided by two driveways located along East Santa Clara Avenue to the south and one driveway located along North Tustin Avenue to the east. Within a regional context, the Project site is located approximately 0.6 miles south of California State Route (SR) 22, 0.3 miles west of SR-55 and 1.5 miles northeast of Interstate (I) 5. Within a local context, the Project site is located on the northern side along East Santa Clara Avenue, which is classified as a Divided Collector Arterial, meaning a street with two travel lanes and a continuous center two-way left turn lane, but may be divided by raised median, with an expanded right-of-way to accommodate bike lanes. Additionally, the site is located approximately 0.04 miles west of North Tustin Avenue, which is classified as a Major Arterial, meaning a street with six travel lanes and a center median and typically includes bus transit, pedestrian sidewalks, and bicycle lanes.

### 2.1.2 EXISTING DEVELOPMENT CONDITIONS

The square shaped Project site is currently developed with two single-story residential houses both of which are currently vacant, two one-story detached garages, a pool, dirt areas and associated asphalt concrete paving along East Santa Clara Avenue. The eastern residence is approximately 3,000 square feet (SF) and the western residence is approximately 1,800 SF in size. The site is surrounded by an existing brick wall along the north, east, and west site boundaries. There are two existing driveways located along East Santa Clara Avenue, which provide individual access to each residential building and its associated garage. The site is fully developed and contains scattered ornamental trees, grasses, and shrubs. Existing ornamental landscaped area totals 18,970 SF, and no areas with native vegetation or habitat are observed on the site.

### 2.1.3 EXISTING PHYSICAL CONDITIONS

#### Geology and Soils Condition

The Project site is situated in the southeastern portion of the Los Angeles Basin, which contains sedimentary rocks of Pliocene and Quaternary age that are between 5,000 to 13,000 feet thick. According to the United States Geological Survey (USGS) 7.5-Minute Santa Ana Quadrangle Map, the Project site is underlain by undifferentiated young alluvial deposit (Qyf) that typically consists of unconsolidated to slightly consolidated, undissected to slightly dissected boulders, cobbles, gravels, sands and silt deposits issued from a very confined valley or canyon. Based on the subsurface investigation conducted as a part of the Geotechnical Report, earth materials encountered are consistent with the Santa Ana Quadrangle Map, and the site consists of fill overlaying young alluvial fan deposits. In general, the soil consists of light brown to brown, dry to damp, medium dense to very dense, clayey and silty sands. The site slopes gently to the southwest and has an elevation of 188 feet above mean sea level (msl) (Universal Engineering Sciences 2021).

#### Hydrology and Drainage Condition

The Project site is within the Newport Bay Watershed. The Project does not have an existing stormwater system and all surface runoff sheet flows east toward a public inlet at the intersection of East Santa Clara Avenue and North Tustin Avenue, which discharges to Peters Canyon Wash and ultimately to Newport Bay (Kimley-Horn and Associates, Inc 2023).

### 2.1.4 SURROUNDING LAND USES AND DEVELOPMENT

The Project site is located within a highly urbanized portion of the City of Santa Ana, which primarily includes a mix of commercial/retail and low-density residential uses. The Project site is bound by East Santa Clara Avenue to the south; a California Highway Patrol Office to the west; commercial businesses (Stater Brothers and Pizza Hut) to the north; and a commercial business (Del Taco) and North Tustin Avenue to the east. Other dominant land uses within the Project vicinity include multi-family apartments located north and south of the site; the Santa Ana Cemetery located to the west; commercial buildings located to the east; and the Plumfield Preschool and Kindergarten located to the south.

## 2.2 PLANNING CONTEXT

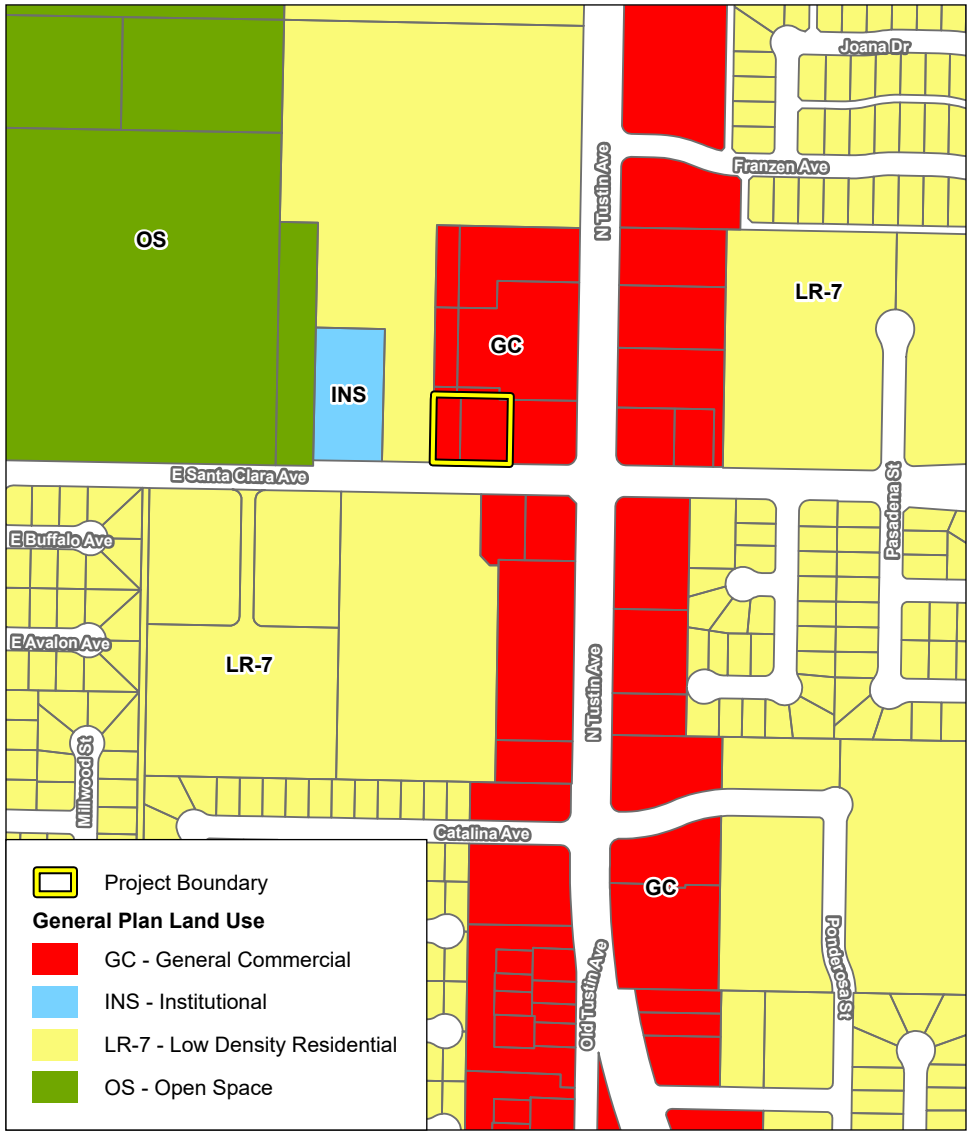
### 2.2.1 GENERAL PLAN DESIGNATION

The Project site currently has a General Plan land use designation of General Commercial (GC), which allows for retail and service establishments; recreational, cultural and entertainment uses; business and professional offices; and vocational schools (City of Santa Ana 2021e). The land use designations adjacent to the Project site include General Commercial to the north, east, and south and Low Density Residential (LR-7) to the north and south. The Santa Ana Cemetery located to the west of the Project site is zoned Open

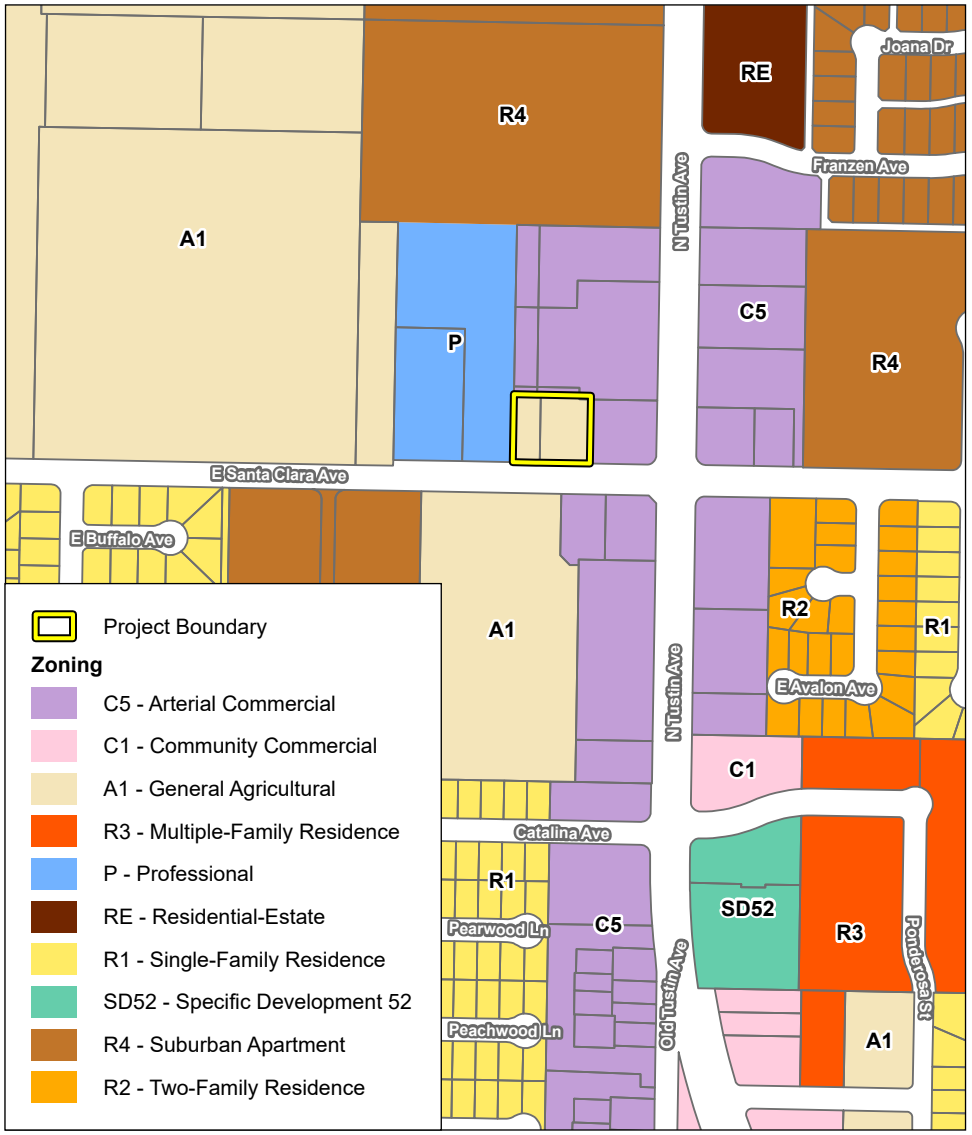
Space (OS) and the California Highway Patrol, also located to the west, is designated as Institutional (INS). Please refer to Exhibit 3, General Plan Designation and Zoning.

### 2.2.2 ZONING DESIGNATION

The Project site is currently zoned A1 (General Agricultural), which permits farming, parks, accessory buildings, temporary sale stands and one-family dwellings (City of Santa Ana 2023b). Adjacent zoning designations include C5 (Arterial Commercial) to the north, east, and south; A1 to the south; and P (Professional) to the west. The multi-family housing located to the north and south of the site are designated as R4 (Suburban Apartment). Please refer to Exhibit 3, General Plan Designation and Zoning.




**General Plan Land Use Designation**




**Zoning Designation**

General Plan Source: City of Santa Ana, 2023
Zoning Source: City of Santa Ana, 2023
Parcels Source: Orange County, 2023

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# General Plan Land Use and Zoning Designation

Exhibit 3

*McDonald's at Santa Clara Avenue Project*

N W E S

500 250 0 500 Feet

PSOMAS

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# 3.0 PROJECT DESCRIPTION

## 3.1 PROPOSED PROJECT

The Project involves demolition and removal of the existing residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development. The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Please refer to Exhibit 4, Site Plan.

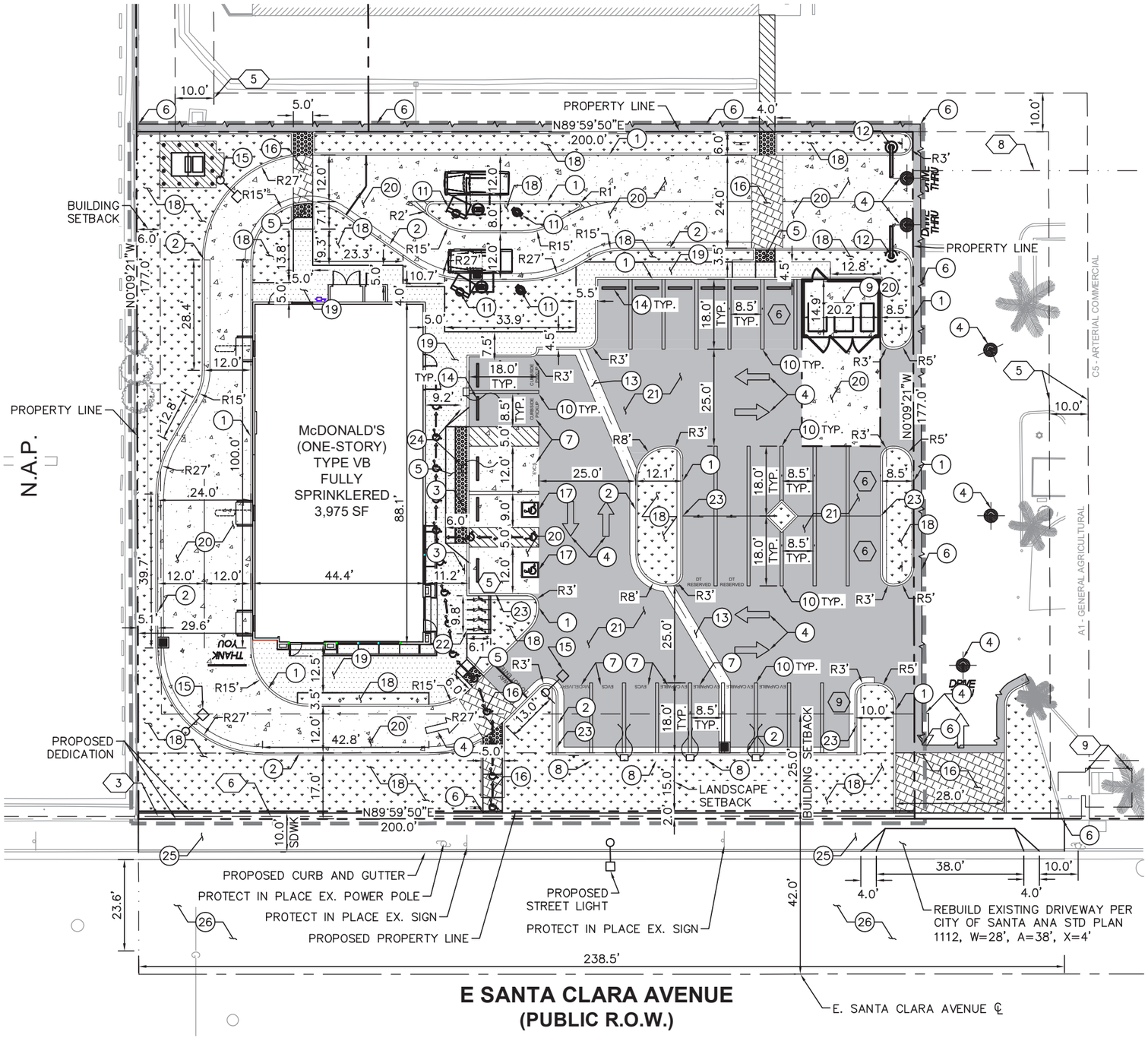
Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping. The square footage breakdown of the site is summarized in Table 1, Lot Coverage Breakdown, below.

**TABLE 1**
**LOT COVERAGE BREAKDOWN**

| Site Area | Area (SF) | Acreage |
|---|---|---|
| **Building Area** | 3,975 | 0.09 acre |
| **Impervious Area** | 23,245 | 0.54 acre |
| **Landscape Area** | 8,180 | 0.19 acre |
| ***Total Area*** | 35,400 | 0.82 acre |
| Source: City of Santa Ana Public Works Agency 2023. | | |

## 3.2 ASSOCIATED IMPROVEMENTS

The Project would also construct a covered trash enclosure and recycling bin storage located on the northeastern corner of the surface parking lot area. Streetlights would be installed along East Santa Clara Avenue per City standards, which require a separate permit and plan, and off-site photometric analysis. A three-foot-wide gutter would be developed along East Santa Clara Avenue. The Project would remove the existing 8-foot sidewalk and replace it with a 10-foot sidewalk per City of Santa Ana Standard Plan 1104, which would connect to and provide continuation of the existing sidewalk areas along East Santa Clara Avenue. The Project would remove the western most driveway along East Santa Clara and replace it with sidewalk, and rebuild the eastern most existing driveway located along East Santa Clara Avenue per City of Santa Ana Standard Plan 1112. In addition, the Project would improve the existing driveway located on North Tustin Avenue with enhanced decorative paving. Additionally, all mechanical equipment, including three rooftop Heating, Ventilation, and Air Conditioning (HVAC) units and four exhaust fans would be placed on the roof and screened from view to the extent possible.




## LEGEND:

- CENTER LINE
- PROPERTY LINE
- DEDICATION LINE
- EASEMENT LINE / SETBACK LINE
- APPROXIMATE LIMIT OF WORK LINE
- STANDARD DUTY CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- LANDSCAPE/PLANTER AREA
- HEAVY DUTY ASPHALT PAVEMENT
- GRIND AND RECAPPING OF 2"-3" RUBBERIZED ASPHALT CONCRETE
- DETECTABLE WARNING SYSTEM
- ENHANCED DECORATIVE PAVING
- ACCESSIBLE ROUTE (LOCATION PURPOSES ONLY, DO NOT PAINT)
- SIGN POST
- ACCESSIBLE PARKING SPACE
- NUMBER OF PARKING SPACES

## CONSTRUCTION NOTES:

1. CONCRETE CURB
2. CONCRETE CURB AND GUTTER
3. ACCESSIBLE PARKING STALL SIGN
4. DIRECTIONAL MARKING PER PLAN
5. ACCESSIBLE RAMP WITH DETECTABLE WARNING (TRUNCATED DOMES)
6. JOIN EXISTING CURB, CURB & GUTTER, SIDEWALK, PAVEMENT.
7. "CLEAN AIR/VAN POOL/EV" IN 12" HIGH WHITE LETTERS AT THE END OF PARKING STALL
8. FUTURE E/V CHARGING STATION. CONDUIT TO BE RAN TO STALL FOR FUTURE CONNECTION.
9. COVERED TRASH ENCLOSURE AND RECYCLING BIN STORAGE
10. STANDARD 90° PARKING STALL STRIPING.
11. DRIVE-THRU EQUIPMENT PER ARCHITECTURAL PLANS
12. HEIGHT DETECTOR POLE
13. 3.0' WIDE VALLEY GUTTER
14. INSTALL WHEELSTOPS FOR PARKING SPACES ADJACENT TO WALKWAYS
15. SITE LIGHTING
16. ENHANCED DECORATIVE PAVING.
17. ACCESSIBLE PARKING STALL STRIPING
18. LANDSCAPE/PLANTER AREA
19. PORTLAND CEMENT CONCRETE PAVEMENT
20. HEAVY DUTY CONCRETE PAVEMENT
21. HEAVY DUTY ASPHALT CONCRETE PAVEMENT
22. BIKE RACK PER ARCHITECTURAL PLANS
23. 18" WALK-OFF CURB
24. PROPOSED E/V CHARGING STATION.
25. PROPOSED SIDEWALK PER CITY OF SANTA ANA STD PLAN 1104.
26. GRIND AND RECAP 2"-3" OF RUBBERIZED ASPHALT CONCRETE.

### PROPOSED IMPROVEMENTS :

ALL IMPROVEMENTS AS SHOWN HEREON TO BE CONSTRUCTED AND INSTALLED BY DEVELOPER AND/OR THE DEVELOPER EXPENSE IN ACCORDANCE WITH THE CITY DESIGN STANDARDS AND SPECIFICATIONS, THE SANTA ANA MUNICIPAL CODE, AND THE APPROVED STREET IMPROVEMENT PLANS.

ANY WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES THE SUBMITTAL OF STREET IMPROVEMENT PLANS AND OBTAINING A STREET WORK PERMIT FROM THE PUBLIC WORKS AGENCY (PWA).

STREET TREE REMOVAL WITHIN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY THE ENVIRONMENTAL AND TRANSPORTATION ADVISORY COMMITTEE (ETAC). A LETTER REQUESTING THE REMOVAL OF EXISTING STREET TREE(S) THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS WILL BE PROVIDED TO THE CITY OF SANTA ANA PRIOR TO SITE PLAN APPROVAL.

### ADDITIONAL PROPOSED IMPROVEMENTS :

- EXISTING DRIVEWAY ON TUSTIN AVENUE SHALL BE IMPROVED TO BE ENHANCED DECORATIVE PAVING AND AT MINIMUM THE WIDTH OF THE DRIVEWAY, DEPTH OF 15' FROM THE PUBLIC RIGHT-OF-WAY.
- PROPOSED STREET LIGHTS TO BE INSTALLED ALONG E. SANTA CLARA AVENUE AS PER CITY OF SANTA ANA STANDARDS. WILL REQUIRE SEPARATE PERMIT AND PLAN. IN ADDITION, AN OFF-SITE PHOTOMETRIC ANALYSIS WILL BE REQUIRED TO DETERMINE NUMBER OF PROPOSED STREET LIGHTS ALONG THE PROPERTY FRONTAGE. STREET LIGHT DRAWINGS SHALL INDICATE SERVICE POINT, PEDESTAL, CONDUITS, WIRES, AND STREET LIGHT LOCATIONS.

Source: City of Santa Ana Public Works Agency, 2023

# Site Plan

*McDonald's at Santa Clara Avenue Project*

N W E S

0 10 20 40 FEET

Exhibit 4

PSOMAS

(08/14/2023 PLO) R:\Projects\SAN05\3SAN050100\Graphics\Ex_Site_Plan.pdf

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## 3.3 LANDSCAPING

The Project would provide 8,604 SF of landscaping throughout the site. The proposed Landscape Plan would consist of a hierarchy of plant materials including trees, shrubs, vines, grasses, and groundcover throughout the Project site. Landscaped planter areas would be constructed along the northern, western, and southern site perimeters and would provide decorative screening and a buffer between the proposed uses and the adjacent, off-site land uses, in addition to being placed centrally within the proposed surface parking lot and adjacent to the proposed drive-thru.

A variety of landscape elements are proposed throughout the development, as shown on Exhibit 5, Landscape Plan. Within the Project site, 17 existing trees would be removed, none of which are located within the public right-of-way and 25 new trees would be planted. All trees located on-site are ornamental and are not subject to regulations as set forth by the City of Santa Ana Municipal Code (SAMC). All tree removals and installations would be conducted in accordance with City standards and applicable permit requirements.

## 3.4 VEHICLE/BICYCLE PARKING

The Project would provide 32 total vehicle parking spaces within the proposed surface parking lot to be located on the eastern side of the site. Parking spaces would include 22 standard stalls, 8 Electric Vehicle (EV) stalls[1], and 2 Americans with Disabilities Act (ADA) compliant stalls, as required by the City Code. The Project would provide 4 bicycle storage spaces, per City Code requirements.

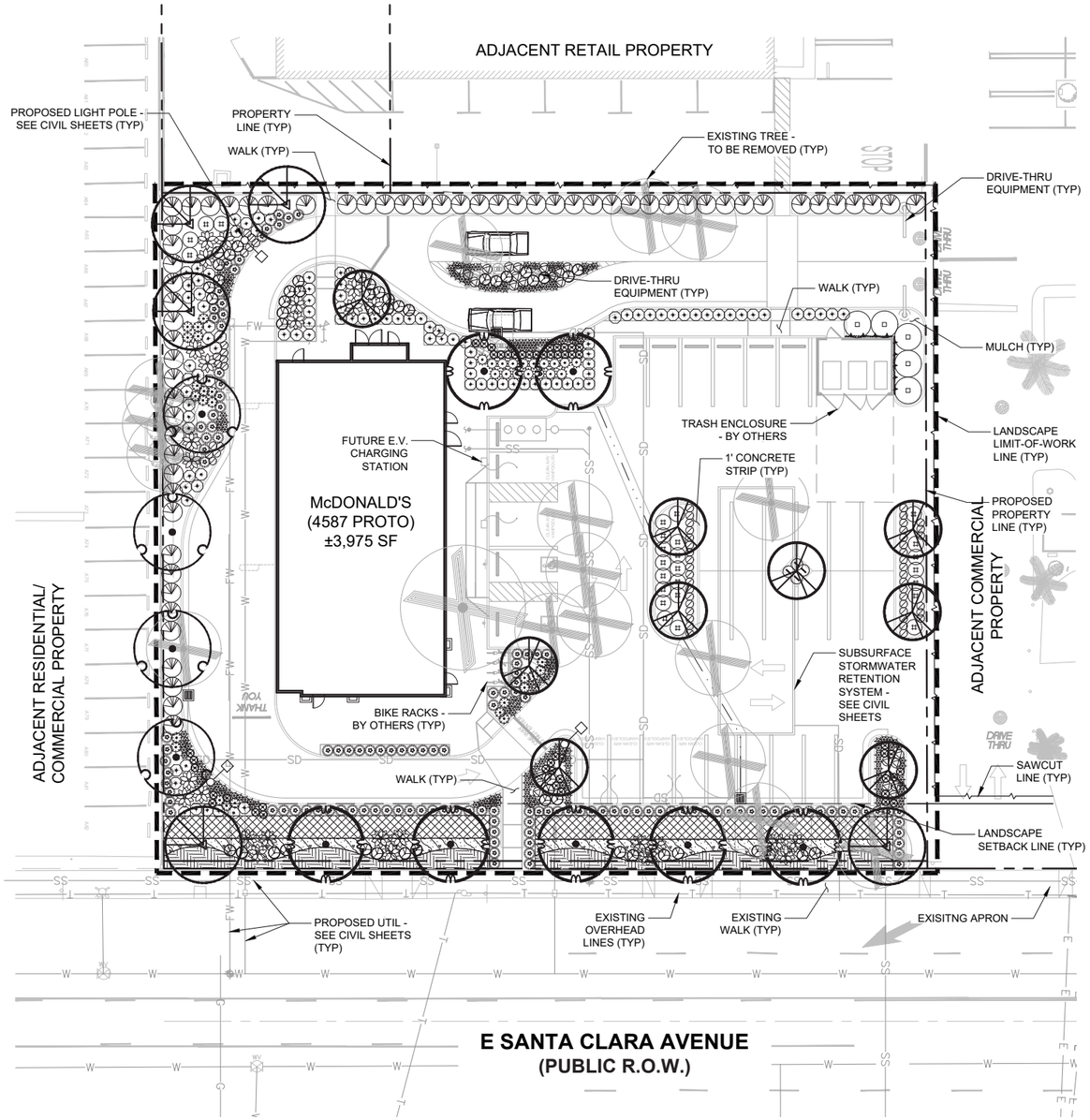
## 3.5 ACCESS/CIRCULATION

The Project would provide primary vehicular ingress and egress points to and from the Project site via two driveways. The proposed parking lot would primarily be accessible from the existing driveway along East Santa Clara Avenue. The proposed drive-thru would be accessible from the existing driveway along North Tustin Avenue, and vehicles would travel west/southwest along the proposed drive-thru, and ultimately exit via a proposed driveway along East Santa Clara Avenue (City of Santa Ana Public Works Agency 2023.).

## 3.6 ARCHITECTURAL DESIGN AND ELEVATIONS

In designing the proposed development, consideration has been given to scale, massing, and architecture of the Project to ensure that it complements the existing buildings within the surrounding development. The Project would primarily incorporate neutral tones along the outer facades, which would involve materials such as plaster/stucco, aluminum, and metals. The proposed McDonald's building would have a maximum height of 23 feet to the top of the

[1] The 8 proposed EV stalls are comprised of 3 EV installed stalls (fully equipped with EV charging station) and 5 EV ready stalls (all EV capable infrastructure is ready to support a future EV charger).




## PLANT SCHEDULE

| TREES | CODE | QTY | BOTANICAL / COMMON NAME | CONT | WUCOLS |
|---|---|---|---|---|---|
| | CD2 | 9 | CERCIDIUM X 'DESERT MUSEUM' / DESERT MUSEUM PALO VERDE | 24" BOX | LOW |
| | EF | 4 | EUCALYPTUS FICIFOLIA / RED FLOWERING GUM | 15 GAL. | LOW |
| | KP | 5 | KOELREUTERIA PANICULATA / GOLDEN RAIN TREE | 36" BOX | LOW |
| | RS | 7 | RHUS LANCEA / AFRICAN SUMAC | 24" BOX | LOW |

| EXISTING TREE | CODE | QTY | BOTANICAL / COMMON NAME | CONT | WUCOLS |
|---|---|---|---|---|---|
| | XE2 | 17 | EXISTING TREE / TO BE REMOVED | - | - |

| SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | WUCOLS |
|---|---|---|---|---|---|
| | AS | 27 | AGAVE ATTENUATA 'SUPER NOVA' / SUPER NOVA FOXTAIL AGAVE | 5 GAL. | LOW |
| | AP | 26 | ARTEMISIA X 'POWIS CASTLE' / POWIS CASTLE ARTEMISIA | 5 GAL. | LOW |
| | BB | 17 | BOUTELOUA GRACILIS 'BLONDE AMBITION' / BLONDE AMBITION BLUE GRAMA | 1 GAL. | LOW |
| | CD | 58 | CAREX DIVULSA / EUROPEAN GREY SEDGE | 5 GAL. | LOW |
| | CT | 163 | CAREX TUMULICOLA / FOOTHILL SEDGE | 1 GAL. | LOW |
| | CM | 47 | CHRYSACTINIA MEXICANA / DAMIANITA | 1 GAL. | LOW |
| | DB | 4 | DIETES BICOLOR / FORTNIGHT LILY | 5 GAL. | LOW |
| | HB | 50 | HESPERALOE PARVIFLORA 'PERPA' / BRAKELIGHTS® RED YUCCA | 5 GAL. | LOW |
| | MC | 105 | MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS | 5 GAL. | MODERATE |
| | MR2 | 127 | MUHLENBERGIA DUBIA / PINE MUHLY | 5 GAL. | LOW |
| | MR | 23 | MUHLENBERGIA RIGENS / DEER GRASS | 5 GAL. | LOW |
| | SG2 | 24 | SALVIA GREGGII / AUTUMN SAGE | 5 GAL. | LOW |

| SCREENING SHRUBS | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | WUCOLS |
|---|---|---|---|---|---|
| | JS2 | 5 | JUNIPERUS SCOPULORUM 'SKYROCKET' / SKYROCKET JUNIPER | 15 GAL. | LOW |
| | LC | 62 | LEUCOPHYLLUM FRUTESCENS 'COMPACTA' / COMPACT TEXAS SAGE | 5 GAL. | LOW |

| VINES | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | WUCOLS |
|---|---|---|---|---|---|
| | TG | 9 | THUNBERGIA GREGORII / ORANGE CLOCK VINE | 5 GAL. | MODERATE |

| GROUND COVERS | CODE | QTY | BOTANICAL / COMMON NAME | CONT. | WUCOLS |
|---|---|---|---|---|---|
| | BP | 32 | BACCHARIS PILULARIS 'PIGEON POINT' / PIGEON POINT COYOTE BRUSH | 1 GAL. | LOW |
| | SC | 173 | SANTOLINA CHAMAECYPARISSUS / LAVENDER COTTON | 1 GAL. | LOW |
| | TN | 184 | TEUCRIUM CHAMAEDRYS 'NANUM' / CREEPING GERMANDER | 1 GAL. | LOW |

LANDSCAPE AREA CALCULATIONS:

TOTAL SITE AREA: 36,538 SQFT

TOTAL LANDSCAPE AREA: 8,604 SQFT

PROPOSED LANDSCAPE PERCENTAGE: 23.5%

LANDSCAPE NOTE:

THE SELECTION OF PLANT MATERIAL IS BASED ON CLIMATIC, AESTHETIC, AND MAINTENANCE CONSIDERATIONS. ALL PLANTING AREAS SHALL BE PREPARED WITH APPROPRIATE SOIL AMENDMENTS, FERTILIZERS AND APPROPRIATE SUPPLEMENTS BASED UPON A SOILS REPORT FROM AN AGRICULTURAL SUITABILITY SOIL SAMPLE TAKEN FROM THE SITE. MULCH SHALL FILL IN BETWEEN SHRUBS TO SHIELD THE SOIL FROM THE SUN, EVAPOTRANSPIRATION, AND RUN-OFF. ALL SHRUB BEDS SHALL BE MULCHED TO A 3" DEPTH TO HELP CONSERVE WATER, LOWER SOIL TEMPERATURE, AND REDUCE WEED GROWTH. THE SHRUBS SHALL BE ALLOWED TO GROW IN THEIR NATURAL FORMS. ALL LANDSCAPE IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF SANTA ANA MUNICIPAL CODE.

IRRIGATION NOTE:

AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE 100% COVERAGE FOR ALL PLANTING AREAS SHOWN ON THE PLAN. THE WATER SUPPLY FOR THIS SITE IS A POTABLE WATER CONNECTION AND A DEDICATED IRRIGATION METER WILL BE PROVIDED. LOW VOLUME EQUIPMENT SHALL PROVIDE SUFFICIENT WATER FOR PLANT GROWTH WITH NO WATER LOSS DUE TO WATER CONTROLLERS, AND OTHER NECESSARY IRRIGATION EQUIPMENT. ALL POINT SOURCE SYSTEM SHALL BE ADEQUATELY FILTERED AND REGULATED PER THE MANUFACTURER'S RECOMMENDED DESIGN PARAMETERS. ALL IRRIGATION IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE CITY OF SANTA ANA MUNICIPAL CODE.

Source: City of Santa Ana, 2022

# Landscape Plan

Exhibit 5

*McDonald's at Santa Clara Avenue Project*

N W E S

Map not to scale

PSOMAS

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parapet. Please refer to proposed building renderings and elevations depicted on Exhibit 6, Architectural Renderings and Elevations.

## 3.7 CONSTRUCTION

Construction activities are anticipated to begin in Summer 2024 through Winter 2024, for a total of approximately 126 days. Construction activity would occur for a minimum of 8 hours per day, and 6 days per week (Monday through Saturday), in accordance with the City's permitted hours of construction. Construction stages such as demolition, site preparation, grading/excavation, building construction, paving, and architectural coating would occur in one phase.

Construction of the proposed Project would require common construction equipment types. No pile driving would be required. Construction equipment is expected to operate at the site during construction, which would occur during daytime hours as permitted by the SAMC (between 7:00 AM and 8:00 PM on any day except Sunday or a City-recognized holiday).

Project construction activities would include demolition over 3 weeks, site preparation over 1 week, grading and excavation over 2 weeks, building construction over 12 weeks, paving over 2 weeks, and architectural coating over 1 week. Some of this work may proceed on a concurrent basis.

### 3.7.1 GRADING QUANTITIES

The proposed grading of the site would retain the relatively flat topography. Grading activities would include an estimated 172 cubic yards (cy) of cut and 377 cy of fill and require 205 cy of import.

### 3.7.2 STAGING

All construction staging areas would occur on-site and would be prohibited on the street or within the public right-of-way. A minimum 40- by 16-foot-wide staging area would be available for the entire duration of construction. In addition, a site trailer and storage containers would be placed in the staging area, and the storage container would be available for any overnight storage needs.

## 3.8 OPERATIONS

The proposed McDonald's would include fast-food operations, such as indoor food preparation, cooking, indoor and outdoor eating areas, a drive-thru, and restrooms. The Project would incorporate indoor water conservation measures such as low-flow fixtures for handwashing sinks, toilet and urinal flush valves, and dish sprayers. Beverage and ice machines would include low water waste technology and the proposed reverse osmosis (RO) filtration system is highly efficient and would limit the amount of bypass water.

NORTH ELEVATION

EAST ELEVATION

SOUTH ELEVATION

2"X2" ALUMINUM BATTEN
B+N INDUSTRIES
FORTINA
TA-647

ALUMINUM COMPOSITE
ALPOLIC
RAL
7022

REVEAL PANEL
METAL ERA
WEATHERED ZINC

PLASTER/STUCCO
RAL
7022

PLASTER/STUCCO
BENJAMIN MOORE
FAIRVIEW TAUPE
HC-85

STOREFRONT
DARK BRONZE
ALUMINUM

PANTONE 123

Source: Bickell Group Architecture, 2023

# Architectural Renderings and Elevations

Exhibit 6

*McDonald's at Santa Clara Avenue Project*

PSOMAS

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The proposed McDonald's hours of operation include 24 hours for drive-thru use, 7 days a week, and between 5 AM to 1 AM for indoor dining use, 7 days a week. The Project would include a maximum of twelve employees working approximately three shifts per day.

## 3.9 DISCRETIONARY APPROVALS

This IS/MND is intended to serve as the primary CEQA environmental document for all actions associated with the proposed Project, including all other approvals beyond the City's authority needed to implement the Project. The following discretionary approvals are required for Project approval.

### 3.9.1 CONDITIONAL USE PERMIT

The Project would request a Conditional Use Permit (CUP), required to allow a drive-thru eating establishment and a second CUP to allow for after-hours operations between 12 AM to 5 AM located within 150 feet of residential property.

### 3.9.2 AMENDMENT APPLICATION (ZONE CHANGE)

The Project site is currently zoned as A1 (Agricultural), and the Project includes an Amendment Application (i.e., Zone Change) to change the zoning classification to C5 (Arterial Commercial).

### 3.9.3 MITIGATED NEGATIVE DECLARATION

In compliance with CEQA and the State CEQA Guidelines, the City of Santa Ana would adopt the MND concurrent with approval of the Project. The MND serves as a finding that the Project would not have a significant effect on the environment.

## 3.10 MINISTERIAL APPROVALS

In addition, the following ministerial permits would be sought from the City of Santa Ana:

- Demolition Permit for existing buildings and site improvements
- Voluntary Lot Merger to consolidate the existing lots into one legal parcel
- Landscape Permit
- Grading Permit
- Building Permits
- Occupancy Permits

The Project would require coverage under the National Pollutant Discharge Elimination System (NPDES) Construction General Permit from the State Water Resources Control Board (SWRCB). The Project would also require a demolition permit from the South Coast Air Quality Management District (SCAQMD).

# 4.0 ENVIRONMENTAL CHECKLIST

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED**

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

| | | |
|---|---|---|
| ☐ Aesthetics | ☐ Agriculture and Forestry Resources | ☐ Air Quality |
| ☐ Biological Resources | ☒ Cultural Resources | ☐ Energy |
| ☒ Geology and Soils | ☐ Greenhouse Gas Emissions | ☒ Hazards and Hazardous Materials |
| ☐ Hydrology and Water Quality | ☐ Land Use and Planning | ☐ Mineral Resources |
| ☐ Noise | ☐ Population and Housing | ☐ Public Services |
| ☐ Recreation | ☐ Transportation | ☒ Tribal Cultural Resources |
| ☐ Utilities and Service Systems | ☐ Wildfire | ☒ Mandatory Findings of Significance |

**DETERMINATION**: (To be completed by the Lead Agency.)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to be the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because al potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

| | |
|---|---|
| Pedro Gomez | December 21, 2023 |
| Signature | Date |
| Pedro Gomez, AICP | City of Santa Ana |
| Printed Name | For |

## EVALUATION OF ENVIRONMENTAL IMPACTS:

1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analysis," as described in (5) below, may be cross-referenced).

5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063 (c)(3)(D). In this case, a brief discussion should identify the following:

   a) Earlier Analysis Used. Identify and state where they are available for review.
   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
   c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9) The explanation of each issue should identify:

   a) the significance criteria or threshold, if any, used to evaluate each question; and
   b) the mitigation measure identified, if any, to reduce the impact to less than significance.

# 4.1 AESTHETICS

| Except as provided in Public Resources Code Section 21099, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Have a substantial adverse effect on a scenic vista? | ☐ | ☐ | ☒ | ☐ |
| b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway? | ☐ | ☐ | ☐ | ☒ |
| c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | ☐ | ☐ | ☒ | ☐ |
| d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Have a substantial adverse effect on a scenic vista?***

**Less than Significant Impact.** Scenic vistas are generally defined as natural landscapes that form views of unique flora, geologic, or other natural features that are generally free from urban intrusions. Typical scenic vistas include views of mountains, hills, uninterrupted open spaces and waterbodies. The Project is located within an urbanized setting within the City and no scenic vistas are located or visible within the vicinity of the Project.

In addition, the City's General Plan Scenic Corridor Element —Exhibit 4, identifies scenic areas within the City of Santa Ana, including 17th Street, which is identified as a secondary street corridor, meaning these streets provide "stitching" to link neighborhoods and districts together and a portion of SR-55 closest to the Project includes screened views from highway (City of Santa Ana 1982). The Project site is located 0.7 mile from 17th Street and 0.3 mile from SR-55. The Project would replace two existing single story residential buildings with a single-story McDonald's, which would have a maximum height of 23 feet to the top of the parapet, within an urban context. As such, the Project would not significantly alter the existing scenic setting, would not block existing views in the vicinity of the Project area and would not have an adverse effect on a scenic vista. Therefore, impacts related to scenic vistas would be less than significant, and no mitigation is required.

***b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?***

**No Impact.** Based on the California Department of Transportation (Caltrans) California State Scenic Highway System Map, there are no designated State scenic highways within the City

of Santa Ana (Caltrans 2023). The site is fully developed and contains scattered ornamental trees, grasses, and shrubs, and does not contain areas with native vegetation. There are no scenic resources, including significant trees, rock outcroppings, and historic buildings in the vicinity of the Project site. Therefore, the proposed Project would not have an adverse effect on scenic resources (including, but not limited to, trees, rock outcroppings, and historic buildings within a State scenic highway) or a locally designated rural street or scenic corridor. There would be no impact, and no mitigation is required.

***c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?***

**Less than Significant Impact.** The Project is in an urbanized area within the City and not located near any scenic resources or scenic highways. The visual character immediately surrounding the Project site is representative of a built-out urban environment containing a mix of commercial/retail and low-density residential uses. While the proposed Project would alter the existing visual character of the Project site from a residential use to a commercial development, this change would not be considered a degradation of the Project site or its surroundings. In designing the proposed development, consideration has been given to scale, massing, and architecture of the Project to ensure that it complements the existing buildings within the surrounding development. The Project would primarily incorporate neutral tones along the outer facades, which would involve materials such as plaster/stucco, aluminum, and metals. Renderings of the Project site are depicted on Exhibit 6.

Additionally, the Project would request an Amendment Application (i.e., Zone Change) to change the zoning classification from A1 (Agricultural) to C5 (Arterial Commercial). The proposed Zone Change would require the Project to be constructed to all development standards outlined in the C5 zone, including setbacks, lot coverage, and height. In the absence of scenic resources in the vicinity of the site, the Project would not conflict with applicable zoning and other regulations governing scenic quality and resources. Impacts would be less than significant, and no mitigation is required.

***d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?***

**Less than Significant Impact**. The Project site is in an area that is already subject to significant ambient lighting from the existing commercial/retail uses surrounding the site. Existing light sources include exterior building lights, parking lot pole lights, and interior building lights. Streetlights are present along East Santa Clara Avenue, and the Project would install additional streetlights along East Santa Clara Avenue per City standards, which require a separate permit and plan, and off-site photometric analysis. The Project would provide additional exterior and interior building lighting associated with the operation of the proposed McDonald's. All Project lighting would be subject to the City of Santa Ana Design Guidelines (Chapter 9 – Commercial Design Guidelines), which outlines lighting

standards for commercial projects and includes direction on minimizing glare onto adjoining properties (City of Santa Ana 2022c). All on-site lighting would be shielded and directed so that no lighting trespasses onto the adjacent properties. Although new light sources would be provided with the proposed commercial use, lighting levels at the Project site would not be altered and would be consistent with the ambient and night-time lighting at the commercial uses surrounding the site. Due to the urban nature of the Project site and existing lighting near the Project site, impacts associated with new lighting from the proposed Project would be less than significant, and no mitigation is required.

Glare is a common daytime phenomenon and is due mainly to the occurrence of a high number of days per year with direct sunlight and the presence of large reflective surfaces. Excessive glare not only restricts visibility but also increases the ambient heat reflectivity in a given area. Glare is caused by light reflections from pavement, vehicles, and building materials such as reflective glass and polished surfaces. During daylight hours, the amount of glare depends on intensity and direction of sunlight, and can create hazards to motorists and nuisances for pedestrians and other viewers. The proposed Project would be constructed with primarily non-reflective materials such as stucco and plaster on the exterior facades. The use of more reflective surfaces including metals and aluminum would be limited for use as design accents. The use of glass would be limited and primarily confined to windows, and would therefore not generate substantial glare affecting surrounding uses. Additionally, during nighttime, the proposed lighting would not be more intense than the surrounding uses. As stated above, the Project would comply with the City Design Guidelines that include guidance for minimizing glare. Impacts would be less than significant, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to aesthetics; therefore, no mitigation measures are required.

# 4.2 AGRICULTURE AND FOREST RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use? | ☐ | ☐ | ☐ | ☒ |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract? | ☐ | ☐ | ☐ | ☒ |
| c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220[g]), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104[g])? | ☐ | ☐ | ☐ | ☒ |
| d) Result in the loss of forest land or conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |
| e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use? | ☐ | ☐ | ☐ | ☒ |

## Impact Analysis

***Would the Project:***

***a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?***

***b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?***

***c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220[g]), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104[g])?***

***d) Result in the loss of forest land or conversion of forest land to non-forest use?***

***e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?***

**No Impact.** The Project site is in an urbanized area and would not convert farmland to a non-agricultural use. Based on review of the California Important Farmland Finder Map, prepared by the California Department of Conservation, Farmland Mapping and Monitoring

Program (FMMP), there are no lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance on or near the Project site (FMMP 2023). The Project site is classified as "Urban and Built-Up Land" meaning the land is occupied by structures with a building density of at least 1 unit to 1.4 acres, or approximately 6 structures to a 10-acre parcel. The Project site is not being used, nor anticipated to be used or zoned for agricultural purposes. The site is not subject to a Williamson Act contract, and it does not contain Prime Farmland or Farmland of Statewide Importance. Additionally, no forest land occurs on the Project site or in the surrounding area. Therefore, the proposed Project would not result in the conversion of Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural uses. In addition, the Project site does not contain designated forest land or timberland, as defined in the California Public Resources Code (Section 12220[g] and 4526, respectively). Therefore, no impacts to agricultural resources, forest land, or timberland would result from Project implementation, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to agriculture and forest resources; therefore, no mitigation is required.

# 4.3 AIR QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Conflict with or obstruct implementation of the applicable air quality plan? | ☐ | ☐ | ☒ | ☐ |
| b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard? | ☐ | ☐ | ☒ | ☐ |
| c) Expose sensitive receptors to substantial pollutant concentrations? | ☐ | ☐ | ☒ | ☐ |
| d) Result in other emissions (such as those leading to odors adversely affecting a substantial number of people? | ☐ | ☐ | ☒ | ☐ |

## Introduction

### *Existing Setting*

An analysis of potential air quality impacts associated with the proposed Project was prepared and is summarized below, and the Air Quality and Greenhouse Gas Technical Report is included as Appendix A to this IS/MND.

Relevant elements of the proposed Project related to the analysis of potential air quality impacts include (1) demolition of on-site paving and existing buildings, which would require export of demolition and construction debris; (2) on-site grading activities, which are expected to result in a small quantity of fill material; (3) use of construction equipment during construction of the Project; and (4) vehicular trips generated by the proposed Project.

The Project site is located in the Orange County portion of the South Coast Air Basin (SoCAB), and, for air quality regulation and permitting, is under the jurisdiction of the SCAQMD. The SoCAB is a 6,600-square-mile area bound by the Pacific Ocean to the west; the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east; and the San Diego County line to the south. The SoCAB includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, in addition to the San Gorgonio Pass area of Riverside County. The SoCAB's terrain and geographical location (i.e., a coastal plain with connecting broad valleys and low hills) determine its distinctive semi-arid climate, which is characterized by moderate temperatures, oceanic influence, and precipitation that is limited to a few storms during the winter (i.e., November through April).

## *Air Quality Background Information*

The SCAQMD has established quantitative thresholds for short-term (construction) emissions and long-term (operational) emissions for the following criteria pollutants: ozone, carbon monoxide, nitrogen oxides, sulfur dioxide, and particulate matter 10 and 2.5 microns. The characteristics and health effects of these criteria pollutants are described below:

- Ozone ($O_3$) is a nearly colorless gas that is formed by photochemical reaction (when nitrogen dioxide is broken down by sunlight). Ground-level $O_3$ exposure can cause a variety of health problems, including lung irritation, wheezing, coughing, pain when taking a deep breath, and breathing difficulties during exercise or outdoor activities; permanent lung damage; aggravated asthma; and increased susceptibility to respiratory illnesses.
- Carbon monoxide (CO) is a colorless and odorless toxic gas which, in the urban environment, is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. CO combines with hemoglobin in the bloodstream and reduces the amount of oxygen that can be circulated through the body. High CO concentrations can lead to headaches, aggravation of cardiovascular disease, and impairment of central nervous system functions.
- Nitrogen oxides ($NO_x$) are yellowish-brown gases, which at high levels can cause breathing difficulties. $NO_x$ are formed when nitric oxide (a pollutant from internal combustion processes) combines with oxygen.
- Sulfur dioxide ($SO_2$) is a colorless, pungent gas formed primarily by the combustion of sulfur-containing fossil fuels. Health effects include acute respiratory symptoms and difficulty in breathing for children.
- Particulate Matter 10 (PM10) and Particulate Matter 2.5 (PM2.5) refer to particulate matter less than ten microns and two and one-half microns in diameter, respectively. Particulates of this size cause a greater health risk than larger-sized particles since fine particles can more easily cause irritation. Particulate matter includes both aerosols and solid particles. An example of particulate matter is fugitive dust. Short-term exposure to high PM2.5 levels is associated with premature mortality and increased hospital admissions and emergency room visits. Long-term exposure to high PM2.5 levels is associated with premature mortality and development of chronic respiratory disease. Short-term exposure to high PM10 levels is associated with hospital admissions for cardiopulmonary diseases, increased respiratory symptoms, and possible premature mortality.

### *Toxic Air Contaminants*

Carcinogenic risks (i.e., cancer risks) are estimated as the incremental probability that an individual will develop cancer as a direct result of exposure to potential carcinogens. The estimated risk is expressed as a probability (e.g., 10 in 1 million). A risk level of 1 in 1 million implies a likelihood that up to 1 person out of 1 million equally exposed people would contract cancer to the specific concentration over 30 years residential period. This would be in addition to those cancer cases that would normally occur in an unexposed population of

one million people (OEHHA 2015). The Hazard Index (HI) expresses the potential for chemicals to result in non-cancer-related health impacts. HIs are expressed using decimal notation (e.g., 0.001). A calculated HI exposure less than 1.0 will likely not result in adverse non-cancer-related health effects over a lifetime of exposure. However, an HI greater than 1.0 does not necessarily mean that adverse effects will occur (OEHHA 2015). Pursuant to SCAQMD Rule 1401(d)(1), the risks associated with potential exposure to emissions from a source equipped with the best available control technology for toxics (T-BACT) and from all emissions sources included within a "project" are acceptable if the incremental cancer risk (1) is less than 10 in 1 million and (2) is less than 1 in 1 million for sources not equipped with T-BACT.

The Multiple Air Toxics Exposure Study V (MATES V) is a monitoring and evaluation study conducted in the SoCAB. According to the MATES V Study, the carcinogenic risk from air toxics in the Basin has improved from the past. While toxic air pollutants decreased by more than 54 percent from 2012 to 2018, the cancer risk for residents of the SoCAB was 455 in one million in the year 2018 (SCAQMD 2021). The results of this Study indicate that diesel exhaust is the primary contributor to air toxics risk within the SoCAB.

## *Existing Air Quality Conditions*

Air quality data for the Project site is represented by the Anaheim-Pampas Lane monitoring station located at 1630 West Pampas Lane, Anaheim. The monitoring station is located approximately 9 miles northwest of the Project site. Pollutants measured at the Anaheim-Pampas Lane Monitoring Station include $O_3$, PM10, PM2.5, and nitrogen dioxide ($NO_2$). The monitoring data presented in Table 2, Air Quality Levels Measured at the Anaheim-Pampas Lane Monitoring Station, were obtained from the California Air Resources Board (CARB 2023). Federal and State air quality standards are presented with the number of times those standards were exceeded.

**TABLE 2**
**AIR QUALITY LEVELS MEASURED AT THE ANAHEIM MONITORING STATIONS**

| Pollutant | California Standard | National Standard | Year | Max. Level[a] | State Standard Days Exceeded[b] | National Standard Days Exceeded[b, c] |
|---|---|---|---|---|---|---|
| $O_3$ (1 hour) | 0.09 ppm | None | 2019 | 0.096 | 1 | 0 |
| | | | 2020 | 0.142 | 1 | 0 |
| | | | 2021 | .089 | 0 | 0 |
| $O_3$ (8 hour) | 0.070 ppm | 0.070 ppm | 2019 | 0.082 | 1 | 1 |
| | | | 2020 | 0.098 | 1 | 1 |
| | | | 2021 | .068 | 0 | 0 |
| PM10 (24 hour) | 50 µg/m³ | 150 µg/m³ | 2019 | 127.6 | 12.0 | 0 |
| | | | 2020 | 74.8 | 24.4 | 0 |
| | | | 2021 | 63.6 | 5.7 | 0 |
| PM10 (AAM) | 20 µg/m³ | None | 2019 | 24.6 | – | – |
| | | | 2020 | 30.8 | – | – |
| | | | 2021 | 23.4 | – | – |
| $NO_2$ (1 hour) | 0.18 ppm | 0.100 ppm | 2019 | 0.059 | 0 | 0 |
| | | | 2020 | 0.070 | 0 | 0 |
| | | | 2021 | 0.067 | 0 | 0 |
| $NO_2$ (AAM) | 0.030 ppm | 0.053 ppm | 2019 | 0.013 | – | – |
| | | | 2020 | 0.013 | – | – |
| | | | 2021 | 0.012 | – | – |
| CO (8 hour) | 20 ppm | 35 ppm | 2019 | 2.4 | 0 | 0 |
| | | | 2020 | 2.3 | 0 | 0 |
| | | | 2021 | – | – | – |
| CO (8 hour) | 9 ppm | 9 ppm | 2019 | 1.3 | 0 | 0 |
| | | | 2020 | 1.7 | 0 | 0 |
| | | | 2021 | – | – | – |
| PM2.5 (24 Hour) | None | 35 µg/m³ | 2019 | 37.1 | – | 4 |
| | | | 2020 | 64.8 | – | 12 |
| | | | 2021 | 54.4 | – | 10 |
| PM2.5 (AAM) | 12 µg/m³ | 15 µg/m³ | 2019 | 9.4 | – | – |
| | | | 2020 | 12.4 | – | – |
| | | | 2021 | 11.6 | – | – |

$O_3$: ozone; ppm: parts per million; PM10: respirable particulate matter with diameter of 10 microns or less; µg/m3: micrograms per cubic meter; AAM: Annual Arithmetic Mean; NO2: nitrogen dioxide; CO: carbon monoxide; PM2.5: fine particulate matter with a diameter of 2.5 microns or less.

NA: Not Available
Source: CARB 2023.

## *Regulatory Background*

The U.S. Environmental Protection Agency (USEPA) defines seven criteria air pollutants: $O_3$, CO, $NO_2$, $SO_2$, PM10, PM2.5, and lead. These pollutants are called criteria pollutants because the USEPA has established National Ambient Air Quality Standards (NAAQS) for the concentrations of these pollutants (USEPA 2023). California Air Resources Board (CARB) has also established standards for the criteria pollutants, known as California Ambient Air Quality Standards (CAAQS), and the State standards are generally more restrictive than the NAAQS. When a region has air quality that fails to meet the standards, the USEPA and the CARB designate the region as "nonattainment" and the regional air quality agency must develop plans to attain the standards.

Based on monitored air pollutant concentrations, the USEPA and the CARB designate an area's status in attaining the NAAQS and the CAAQS, respectively, for selected criteria pollutants. These attainment designations are shown in Table 3.

**TABLE 3**
**ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SOUTH COAST AIR BASIN**

| Pollutant | State | Federal |
|---|---|---|
| $O_3$ (1 hour) | Nonattainment | No Standards |
| $O_3$ (8 hour) | Nonattainment | Extreme Nonattainment |
| PM10 | Nonattainment | Attainment/Maintenance |
| PM2.5 | Nonattainment | Serious Nonattainment |
| CO | Attainment | Attainment/Maintenance |
| $NO_2$ | Attainment | Attainment |
| $SO_2$ | Attainment | Attainment |
| Lead | No Standard | Attainment/Nonattainment* |
| All others | Attainment/Unclassified | No Standards |

$O_3$: ozone; PM10: particulate matter 10 microns or less in diameter; PM2.5: particulate matter 2.5 microns or less in diameter; CO: carbon monoxide; $NO_2$: nitrogen dioxide; $SO_2$: sulfur dioxide.

* The Los Angeles County portion of the SoCAB is designated nonattainment for lead; the remainder of the SoCAB is designated attainment.

Source: SCAQMD 2017; USEPA 2023.

CARB, a part of the California Environmental Protection Agency, is responsible for coordinating and administering both the federal and State air pollution control programs in California. In this capacity, CARB conducts research, sets the CAAQS (as shown in Table 4), compiles emission inventories, develops suggested control measures, oversees local programs, and prepares the State Implementation Plan (SIP). For regions that do not attain the CAAQS, CARB requires the air districts to prepare plans for attaining the standards. These plans are then integrated into the SIP. CARB establishes emissions standards for (1) motor vehicles sold in California, (2) consumer products (e.g., hair spray, aerosol paints, barbecue lighter fluid), and (3) various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

**TABLE 4**
**CALIFORNIA AND FEDERAL AMBIENT AIR QUALITY STANDARDS**

| Pollutant | Averaging Time | California Standards | Federal Standards | |
|---|---|---|---|---|
| | | | Primary[a] | Secondary[b] |
| $O_3$ | 1 Hour | 0.09 ppm (180 μg/m³) | — | — |
| | 8 Hour | 0.070 ppm (137 μg/m³) | 0.070 ppm (137 μg/m³) | Same as Primary |
| PM10 | 24 Hour | 50 μg/m³ | 150 μg/m³ | Same as Primary |
| | AAM | 20 μg/m³ | – | Same as Primary |
| PM2.5 | 24 Hour | – | 35 μg/m³ | Same as Primary |
| | AAM | 12 μg/m³ | 12.0 μg/m³ | 15.0 μg/m³ |
| CO | 1 Hour | 20 ppm (23 mg/m³) | 35 ppm (40 mg/m³) | — |
| | 8 Hour | 9.0 ppm (10 mg/m³) | 9 ppm (10 mg/m³) | — |
| | 8 Hour (Lake Tahoe) | 6 ppm (7 mg/m³) | — | — |
| $NO_2$ | AAM | 0.030 ppm (57 μg/m³) | 0.053 ppm (100 μg/m³) | Same as Primary |
| | 1 Hour | 0.18 ppm (339 μg/m³) | 0.100 ppm (188 μg/m³) | — |
| $SO_2$ | 24 Hour | 0.04 ppm (105 μg/m³) | — | — |
| | 3 Hour | — | — | 0.5 ppm (1,300 μg/m³) |
| | 1 Hour | 0.25 ppm (655 μg/m³) | 0.075 ppm (196 μg/m³) | — |
| Lead | 30-day Avg. | 1.5 μg/m³ | — | — |
| | Calendar Quarter | — | 1.5 μg/m³ | Same as Primary |
| | Rolling 3-month Avg. | — | 0.15 μg/m³ | |
| Visibility Reducing Particles | 8 Hour | Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe) | **No Federal Standards** | |
| Sulfates | 24 Hour | 25 μg/m³ | | |
| Hydrogen Sulfide | 1 Hour | 0.03 ppm (42 μg/m³) | | |
| Vinyl Chloride | 24 Hour | 0.01 ppm (26 μg/m³) | | |

$O_3$: ozone; ppm: parts per million; μg/m³: micrograms per cubic meter; PM10: respirable particulate matter 10 microns or less in diameter; AAM: Annual Arithmetic Mean; —: No Standard; PM2.5: fine particulate matter 2.5 microns or less in diameter; CO: carbon monoxide; mg/m³: milligrams per cubic meter; $NO_2$: nitrogen dioxide; $SO_2$: sulfur dioxide; km: kilometer.

[a] *National Primary Standards:* The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

[b] *National Secondary Standards:* The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

Note: More detailed information in the data presented in this table can be found at the CARB website (www.arb.ca.gov).

Source: CARB 2016

The SCAQMD was established in 1977 by merging the individual air pollution control districts of the four counties within the SoCAB: Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino counties. The SCAQMD and the, in coordination with local governments and the private sector, develop the Air Quality Management Plan (AQMP) for the SoCAB to satisfy these requirements. The AQMP is the most important air management document for the SoCAB because it provides the blueprint for meeting State and federal ambient air quality standards.

The current regional plan applicable to the Project is the SCAQMD's 2022 AQMP. The SCAQMD is responsible for ensuring that the SoCAB meets the NAAQS and CAAQS by reducing emissions from stationary (area and point), mobile, and indirect sources. To accomplish this goal, the SCAQMD prepares AQMPs in conjunction with the Southern California Association of Governments (SCAG), County transportation commissions, and local governments; develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary, as indicated above.

## *Sensitive Air Quality Receptors*

Sensitive receptors include, but are not limited to, children, the elderly, persons with preexisting respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. These sensitive receptor uses include, but are not limited to, sensitive receptors at schools, parks, hospitals, high-density residential areas, and convalescent homes. The Project site is surrounded with commercial and residential uses. The nearest sensitive receptors are residential and preschool uses located south of the Project site, approximately 80 feet from the Project's southern boundary.

## *SCAQMD Thresholds of Significance*

The SCAQMD's Air Quality Analysis Handbook (CEQA Handbook) provides significance thresholds for both construction and operation of projects within the SCAQMD's jurisdictional boundaries (SCAQMD 2023). The SCAQMD recommends that projects be evaluated in terms of the quantitative thresholds established to assess both the regional and localized impacts of project-related air pollutant emissions. The City of Santa Ana uses the current SCAQMD thresholds to determine whether a proposed project would have a significant impact. These SCAQMD thresholds are identified in Table 5.

**TABLE 5**
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**
**AIR QUALITY SIGNIFICANCE THRESHOLDS**

| **Mass Daily Thresholds[a]** | | |
|---|---|---|
| **Pollutant** | **Construction** | **Operation** |
| NOx | 100 lbs/day | 55 lbs/day |
| VOC | 75 lbs/day | 55 lbs/day |
| PM10 | 150 lbs/day | 150 lbs/day |
| PM2.5 | 55 lbs/day | 55 lbs/day |
| SOx | 150 lbs/day | 150 lbs/day |
| CO | 550 lbs/day | 550 lbs/day |
| Lead | 3 lbs/day | 3 lbs/day |
| **TACs, Odor, and GHG Thresholds** | | |
| TACs (including carcinogens and non-carcinogens) | Maximum Incremental Cancer Risk ≥ 10 in 1 million<br>Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million)<br>Chronic & Acute Hazard Index ≥ 1.0 (project increment) | |
| Odor | Project creates an odor nuisance pursuant to South Coast AQMD Rule 402 | |
| GHG | 10,000 MT/yr $CO_2e$ for industrial facilities | |
| **Ambient Air Quality Standards for Criteria Pollutants[b, c]** | | |
| $NO_2$<br>1-hour average<br>annual arithmetic mean | South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:<br><br>0.18 ppm (State)<br>0.03 ppm (State) and 0.0534 ppm (federal) | |
| PM10<br>24-hour average<br>annual average | 10.4 μg/m$^3$ (construction)[c] & 2.5 μg/m$^3$ (operation)<br>1.0 μg/m$^3$ | |
| PM2.5<br>24-hour average | 10.4 μg/m$^3$ (construction)[c] & 2.5 μg/m$^3$ (operation) | |
| $SO_2$<br>1-hour average<br>24-hour average | 0.25 ppm (State) & 0.075 ppm (federal – 99$^{th}$ percentile)<br>0.04 ppm (State) | |
| Sulfate<br>24-hour average | 25 μg/m$^3$ (State) | |
| CO<br>1-hour average<br>8-hour average | South Coast AQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards:<br><br>20.0 ppm (State) and 35 ppm (federal)<br>9.0 ppm (State/federal) | |

**TABLE 5**
**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**
**AIR QUALITY SIGNIFICANCE THRESHOLDS**

| | |
|---|---|
| Lead<br>30-day average<br>Rolling 3-month average | <br>1.5 µg/m$^3$ (State)<br>0.15 µg/m$^3$ (federal) |

NOx: nitrogen oxides; lbs/day: pounds per day; VOC: volatile organic compound; PM10: respirable particulate matter with a diameter of 10 microns or less; PM2.5: fine particulate matter with a diameter of 2.5 microns or less; SOx: sulfur oxides; CO: carbon monoxide; TACs: toxic air contaminants; GHG: greenhouse gases; South Coast AQMD: South Coast Air Quality Management District; MT/yr $CO_2e$: metric tons per year of carbon dioxide equivalents; $NO_2$: nitrogen dioxide; ppm: parts per million; µg/m$^3$: micrograms per cubic meter; $SO_2$: sulfur oxides; CO: carbon monoxide.

[a] Source: South Coast AQMD CEQA Handbook (South Coast AQMD 1993)
[b] Ambient air quality thresholds for criteria pollutants based on South Coast AQMD Rule 1303, Table A-2 unless otherwise stated
[c] Ambient air quality threshold is based on South Coast AQMD Rule 403

Source: South Coast AQMD 2023.

These regional emission thresholds cannot be used to correlate whether a specific health impact would occur to an individual receptor. These significance thresholds were developed to assist Lead Agencies with a consistent threshold that could be used to determine whether a project's emissions could significantly contribute to the total emissions occurring within an air basin. The totality of the air basin's emissions would determine whether it would be in attainment of the CAAQS and NAAQS.

## *LST Thresholds of Significance*

Short-term local impacts to nearby sensitive receptors from on-site emissions of $NO_2$, CO, PM10, and PM2.5 are examined based on SCAQMD's localized significance threshold (LST) methodology. To assess local air quality impacts for development projects without complex dispersion modeling, the SCAQMD developed screening (lookup) tables to assist lead agencies in evaluating impacts. The LST method was developed to provide a conservative estimate of the level of project-generated air pollutants that have the potential to exceed the NAAQS or CAAQS, which could consequently result in adverse health impacts. Exceedance of the LST does not describe the prevalence or magnitude of health effects, but rather assesses the potential for a project-related health effect to occur. The LST method cannot provide an estimate of health effects related to $O_3$ozone. Reactive organic gases (ROGs) and $NO_x$ are pollutants that contribute to the formation of ozone, otherwise known as $O_3$ozone precursors. It would be too speculative to determine how an individual project could affect the formation of $O_3$ozone, and how it could affect the health for a specific receptor: $O_3$ozone does not fully form within the proximity of a project site, and the formation of $O_3$ozone is affected by solar irradiance, meteorological conditions, presence of $O_3$ozone precursors from other sources, and other factors. As such, modeling of $O_3$ozone concentrations is conducted on the "macro" scale of an air basin for all pollutant sources within the basin, and not for an individual project. Consequently, the LST analysis focuses on a project--level analysis of the four criteria pollutants of greatest concern (CO, $NO_x$, $PM_{10}$, and $PM_{2.5}$).

The LST method is recommended to be limited to projects that are five acres or less. For the purposes of an LST analysis, the SCAQMD considers receptors where it is possible that an individual could remain for 1 hour for $NO_2$ and CO exposure and 24 hours for PM10 and PM2.5 exposure. The emissions limits in the lookup tables are based on the SCAQMD's Ambient Air Quality Standards (SCAQMD 2022).

## Impact Analysis

***Would the Project:***

***a) Conflict with or obstruct implementation of the applicable air quality plan?***

**Less than Significant Impact.** The SCAQMD develops rules and regulations, establishes permitting requirements for stationary sources, inspects emissions sources, and enforces such measures through educational programs or fines, when necessary. It is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources and has prepared an AQMP that establishes a program of rules and regulations directed at attaining the NAAQS and CAAQS.

As stated above, the current regional plan applicable to the Project is the SCAQMD's 2022 AQMP. The SCAQMD is responsible for ensuring that the SoCAB meets the NAAQS and CAAQS by reducing emissions from stationary (area and point), mobile, and indirect sources. To accomplish this goal, the SCAQMD prepares AQMPs in conjunction with the Southern California Association of Governments (SCAG), County transportation commissions, and local governments; develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary, as indicated above.

The 2022 AQMP was adopted on December 2, 2022, by the SCAQMD Governing Board. The 2022 AQMP is a regional and multi-agency effort among the SCAQMD, CARB, SCAG, and USEPA. The 2022 AQMP includes an analysis of emissions, meteorology, atmospheric chemistry, regional growth projections, and the impact of existing control measures. The purpose of the 2022 AQMP is to set forth a comprehensive program that would promote reductions in criteria pollutants, greenhouse gases (GHGs), and toxic risk and efficiencies in energy use, transportation, and goods movement. The 2022 AQMP incorporates the latest scientific and technical information and planning assumptions, including SCAG's 2020–-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS); updated emission inventory methods for various source categories; and SCAG's latest growth forecasts. The 2022 AQMP includes strategies and measures necessary to meet the NAAQS. The AQMP is based on projections of energy usage and vehicle trips from land uses within the SoCAB.

The main purpose of an AQMP is to bring an area into compliance with the requirements of federal and State air quality standards. For a project to be consistent with the AQMP, the pollutants emitted from the project should not (1) exceed the SCAQMD CEQA air quality significance thresholds or (2) conflict with or exceed the assumptions in the AQMP.

With respect to the first criterion, based on the air quality modeling analysis conducted for the proposed Project, provided below, construction and operation of the Project would not exceed the SCAQMD's CEQA thresholds of significance and consequently would not result in an increase in the frequency or severity of existing air quality violations nor cause or contribute to new violations, or delay timely attainment of air quality standards or the interim emissions reductions in the AQMP. Therefore, the Project is consistent with the first criterion.

With respect to the second criterion, the proposed Project was assessed as to whether it would exceed the assumptions in the AQMP. The Project site currently has a General Plan land use designation of General Commercial (GC). This designation provides highly visible and accessible shopping opportunities along arterial corridors and supports the development and continued operation of recreational, cultural, entertainment, employment, and educational opportunities near established residential neighborhoods. (Santa Ana 2022e). The proposed Project is consistent with the General Plan's vision which in turn is consistent with the AQMP. The proposed Project is not anticipated to exceed the AQMP assumptions for the Project site and is found to be consistent with the AQMP for the second criterion. Therefore, the Project would not result in an inconsistency with the SCAQMD's 2022 AQMP. Less than significant impacts would occur, and no mitigation is required.

***b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?***

**Less than Significant Impact.** A project may have a significant impact where project-related emissions would exceed federal, State, or regional standards or thresholds, or where project-related emissions would substantially contribute to an existing or projected air quality violation. As identified in Table 4, Orange County is a nonattainment area for $O_3$, PM10, and PM2.5. The Project would generate PM10, PM2.5, and $O_3$ precursors (NOx and volatile organic compound [VOC]) during short-term construction and long-term operations. The SCAQMD has developed construction and operations thresholds to determine whether projects would considerably contribute toward a violation of ambient air quality standards.

## *Construction Activities*

Air pollutant emissions would occur from construction equipment exhaust; dust from demolition and site grading; exhaust and particulate emissions from trucks hauling demolition and construction debris, soil, and building materials to and from the Project site; from automobiles and light trucks driven to and from the Project site by construction workers; and VOCs from painting and asphalt paving operations. The proposed Project would comply with applicable SCAQMD rules and regulations, including Rule 403 for fugitive dust control. Rule 403 measures include regular watering of active grading areas and unpaved roads, limiting vehicle speeds on unpaved surfaces, stabilizing stockpiled earth, and curtailing grading operations during high wind conditions. Watering of active grading areas is included in the California Emissions Estimator Model (CalEEMod) emissions analysis and results in reduced PM10 and PM2.5 emissions. The emission reductions associated with compliance with this rule have been included in the emissions calculations.

Regional Emissions Thresholds – Maximum Daily Regional Emissions

Table 6, Estimated Maximum Daily Regional Construction Emissions, presents the estimated maximum daily emissions during construction of the proposed Project and compares the estimated emissions with the SCAQMD's daily regional emission thresholds. As shown in Table 6, Project construction mass daily emissions would be less than the SCAQMD's thresholds for all criteria air pollutants, and the impact would be less than significant. No mitigation is required.

**TABLE 6**
**ESTIMATED MAXIMUM DAILY REGIONAL CONSTRUCTION EMISSIONS**

| Year | Emissions (lbs/day) | | | | | |
|---|---|---|---|---|---|---|
| | VOC | NOx | CO | $SO_2$ | PM10 | PM2.5 |
| 2024 | 8 | 5 | 6 | <1 | <1 | <1 |
| ***SCAQMD Thresholds*** | ***75*** | ***100*** | ***550*** | ***150*** | ***150*** | ***55*** |
| **Exceeds SCAQMD Thresholds?** | **No** | **No** | **No** | **No** | **No** | **No** |

lbs/day: pounds per day; VOC: volatile organic compound; NOx: nitrogen oxides; CO: carbon monoxide; $SO_2$: sulfur dioxide; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; SCAQMD: South Coast Air Quality Management District.

Source: SCAQMD 2023 (thresholds); see Appendix A for CalEEMod model outputs.

## *Operational Activities*

The following section provides an analysis of potential long-term air quality impacts to regional air quality with the long-term operation of the proposed Project. The potential operations-related air emissions have been analyzed below for the regional criteria pollutant emissions and cumulative impacts.

Operational emissions are comprised of area, energy, and mobile source emissions. The principal source of VOC emissions associated with the Project would result from the use of consumer products; the primary source of CO, NOx, PM10, and PM2.5 emissions would be mobile sources. Area and energy source emissions are based on CalEEMod assumptions for the specific land uses and size. Mobile source emissions are based on estimated Project-related trip generation forecasts, as contained in the Project traffic impact analysis. The Project would generate 1,860 daily trips, with half being pass-by trips. Estimated peak daily operational emissions are shown in Table 7.

**TABLE 7**
**PEAK DAILY OPERATIONAL EMISSIONS**

| Source | Emissions (lbs/day) | | | | | |
|---|---|---|---|---|---|---|
| | VOC | $NO_x$ | CO | $SO_2$ | PM10 | PM2.5 |
| Mobile sources | 4 | 3 | 33 | <1 | 7 | 2 |
| Area sources | <1 | <1 | <1 | <1 | <1 | <1 |
| Energy sources | <1 | 3 | 2 | <1 | <1 | <1 |
| Water | <1 | <1 | <1 | <1 | <1 | <1 |
| Waste | <1 | <1 | <1 | <1 | <1 | <1 |
| Refrigeration | <1 | <1 | <1 | <1 | <1 | <1 |
| **Total Operational Emissions*** | **4** | **6** | **36** | **<1** | **7** | **2** |
| ***SCAQMD Significance Thresholds (Table 4-4)*** | ***55*** | ***55*** | ***550*** | ***150*** | ***150*** | ***55*** |
| **Significant Impact?** | **No** | **No** | **No** | **No** | **No** | **No** |

lbs/day: pounds per day; VOC: volatile organic compounds; NOx: nitrogen oxides; CO: carbon monoxide; SOx: sulfur oxides; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; SCAQMD: South Coast Air Quality Management District.

* Some totals do not add due to rounding.

Note: CalEEMod model data sheets are included in Appendix A.

As shown in Table 7, the Project's operational emissions would be less than the SCAQMD CEQA significance thresholds for all criteria pollutants. It should be noted that the analysis provided above in Table 7 is conservative, because it provides the gross emissions, and does not deduct operational emissions from existing uses. Therefore, the Project's operational impact on regional emissions would be less than significant, and no mitigation is required.

### *c) Expose sensitive receptors to substantial pollutant concentrations?*

**Less than Significant Impact.** A significant impact may occur when a project would generate pollutant concentrations to a degree that would significantly affect sensitive receptors, which include populations that are more susceptible to the effects of air pollution than the population at large. Exposure of sensitive receptors is addressed for the following situations: Construction--phase Localized emissions, CO hotspots, and toxic air contaminants (TACs, specifically diesel particulate matter [DPM]) from on-site construction. Operational, long-term TACs may be generated by some industrial land uses; commercial land uses (e.g., gas stations and dry cleaners); and diesel trucks on freeways.

### *Construction-Phase Localized Significance Thresholds*

As stated above, in addition to the mass daily emissions thresholds established by the SCAQMD, short-term local impacts to nearby sensitive receptors from on-site emissions of $NO_2$, CO, PM10, and PM2.5 are examined based on SCAQMD's localized significance threshold (LST) methodology, which is recommended to be limited to projects that are five acres or less. The emissions screening thresholds used in this analysis are for receptors within 25 meters (82 feet) of the Project site for $NO_x$, and CO, PM10, and PM2.5; the thresholds for

receptors farther away would be higher, and the Project emissions would be a smaller fraction of the thresholds.

Table 8, Construction-Phase Localized Significance Threshold Emissions, shows the maximum daily on-site emissions for construction activities compared with the SCAQMD LST screening thresholds. The Project site is 0.82-acre in area. The thresholds shown are from the lookup tables for a site disturbance area that is 1 acre, which is based on the maximum equipment used on-site. The Project's maximum daily on-site emissions for all pollutants would occur during the building construction phase. As shown in Table 8, localized emissions for all criteria pollutants would be less than their respective screening thresholds. Therefore, localized air quality impacts would be less than significant, no mitigation is required.

**TABLE 8**
**CONSTRUCTION-PHASE**
**LOCALIZED SIGNIFICANCE THRESHOLD EMISSIONS**

| Emissions and Thresholds | Emissions (lbs/day) | | | |
|---|---|---|---|---|
| | NOx | CO | PM10 | PM2.5 |
| Project maximum daily on-site emissions | 5 | 6 | <1 | <1 |
| **Localized Significance Threshold** | **81** | **485** | **4** | **3** |
| **Exceed threshold?** | **No** | **No** | **No** | **No** |

lbs/day: pounds per day; NOx: nitrogen oxides; CO: carbon monoxide; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter.

Note: Data is for SCAQMD Source Receptor Area 17, Central Orange County

Source: SCAQMD 2009 (thresholds); see Appendix A for CalEEMod model outputs.

## *Carbon Monoxide Hotspot*

In an urban setting, vehicle exhaust is the primary source of CO. Consequently, the highest CO concentrations generally are found close to congested intersections. Under typical meteorological conditions, CO concentrations tend to decrease as the distance from the emissions source (e.g., congested intersection) increases. Therefore, for purposes of providing a conservative worst-case impact analysis, CO concentrations typically are analyzed at congested intersection locations. If impacts are less than significant close to congested intersections, impacts also would be less than significant at more distant sensitive-receptor and other locations. The proposed Project would have an increase in peak morning and evening traffic volumes of 89 and 67 trips, respectively. The Project contribution of vehicle trips are not of sufficient magnitude to result in a substantial contribution to CO concentrations at localized intersections. As such, Project-related vehicles would not result in a significant impact related to CO hotspots.

## *Criteria Pollutants from On-Site Construction*

Exposure of persons to NOx, CO, PM10, and PM2.5 emissions is discussed in response to Threshold 4.3(a) above. As shown in Table 8, in response to Threshold 4.3(a), localized emissions for all criteria pollutants would be less than their respective screening thresholds. Therefore, localized air quality impacts to sensitive receptors would be less than significant.

## *Toxic Air Contaminant Emissions from On-Site Construction*

Construction activities would result in short-term, Project-generated emissions of DPM from the exhaust of off-road, heavy-duty diesel equipment used for site preparation (e.g., demolition, excavation, and grading); paving; building construction; and other miscellaneous activities. CARB identified DPM as a TAC in 1998. The dose to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Thus, the risks estimated for a maximally exposed individual are higher if a fixed exposure occurs over a longer time period. According to the Office of Environmental Health Hazard Assessment, health risk assessments—which determine the exposure of sensitive receptors to TAC emissions—should be based on a 40-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the Project.

There would be relatively few pieces of off-road, heavy-duty diesel equipment in operation, and the total construction period of approximately 120 days would be relatively short when compared to a 40-year exposure period. The period for which offroad construction equipment is used would be even less. Combined with the highly dispersive properties of DPM and additional reductions in particulate emissions from newer construction equipment, as required by USEPA and CARB regulations, construction emissions of TACs would not expose sensitive receptors to substantial emissions of TACs. The impact would be less than significant, and no mitigation is required.

***d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?***

**Less than Significant Impact.** Potential operational odors could be created by cooking and trash collection associated with commercial uses. These odors would be similar to those of existing uses surrounding the Project site and throughout the City. According to the SCAQMD's *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The proposed Project does not include any uses identified by the SCAQMD as being associated with odors and, therefore, would not produce objectionable odors. The Project uses, which includes the cooking of food, are also regulated from nuisance odors or other objectionable emissions by SCAQMD Rule 402. Rule 402 prohibits the discharge from any source of air contaminants or other material which would cause injury, detriment, nuisance, or annoyance to people or the public. Preparation of food is not considered by the SCAQMD to

constitute a public nuisance. As such, the Project would have a less than significant impact with regard to other emissions. No mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to air quality; therefore, no mitigation measures are required.

# 4.4 BIOLOGICAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☐ | ☒ |
| b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? | ☐ | ☐ | ☐ | ☒ |
| c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means? | ☐ | ☐ | ☐ | ☒ |
| d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites? | ☐ | ☐ | ☒ | ☐ |
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance? | ☐ | ☐ | ☒ | ☐ |
| f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? | ☐ | ☐ | ☐ | ☒ |

## Impact Analysis

***Would the Project:***

***a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?***

**No Impact.** The Project site is located on a developed site within an urban area, and surrounded by a mix of commercial and residential uses. The entire Project site and immediate surrounding areas are developed and do not support native plant communities or native habitat. The site contains scattered ornamental trees, grasses, and shrubs, and no areas with native vegetation or habitat are on-site.

In addition, no fish, amphibian, or hydrogeomorphic features (e.g., perennial creeks, ponds, lakes, reservoirs) that would provide suitable habitat for fish or amphibians were observed

on or within the vicinity of the Project site. Therefore, no fish are expected to occur and are presumed absent from the Project site. Due to the high level of anthropogenic disturbances on-site, and surrounding development, no special-status reptilian species are expected to occur within the Project site. The Project site provides minimal foraging habitat for bird or mammal species that have adapted to human disturbance. The existing ornamental landscaping provides potential habitats for common animal species that are typically found in urban areas, such as small mammals, birds, small reptiles, and insects. However, the site does not provide natural habitats for sensitive plant and animal species.

Review of the U.S. Fish and Wildlife Service's (USFWS') Critical Habitat for Threatened and Endangered Species shows there are no designated critical habitat areas on or near the Project site (USFWS 2023). The nearest critical habitat is located in North Tustin, approximately 3 miles to the northeast.

Since there are no natural or sensitive biological resources on the Project site, the proposed Project would not impact any candidate, sensitive, or special status species, as identified in the local or regional plans, policies, or regulations by the California Department of Fish and Wildlife (CDFW) or USFWS. There would be no impact on sensitive species, and no mitigation is required.

***b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?***

**No Impact**. Riparian habitat is composed of the trees and other vegetation and physical features normally found on the stream banks and flood plains associated with streams, lakes, or other bodies of water. The City of Santa Ana is largely urbanized. The Santa Ana River is the closest body of water and is located approximately 3.5 miles west of the Project site. The Project site is located in an urbanized area of the City and is surrounded by existing development. The site supports ornamental landscaping at scattered locations but does not contain riparian habitat or sensitive natural vegetation communities identified by CDFW and USFWS. There would be no impact to riparian habitats or sensitive natural vegetation communities, and no mitigation is required.

***c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?***

**No Impact.** The Project site is largely paved and does not support State or federally protected wetlands, or other areas under the jurisdiction of the CDFW, the RWQCB, or USACE. There are no jurisdictional drainages, wetlands, or riparian habitats located at the Project site. Therefore, no impacts associated with federally protected wetlands would occur, and no mitigation is required.

***d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?***

**Less than Significant Impact**. The Project site is fully developed and is surrounded by commercial uses and roadways. The Project site is isolated from regional wildlife corridors and linkages, and there are no riparian corridors, creeks, or useful patches of steppingstone habitat (natural areas) within or connecting the Project site to any identified wildlife corridors or linkages. As a result, implementation of the proposed Project would not disrupt or have any adverse effects on any migratory corridors or linkages in the surrounding area. The Project would not affect the movement of any native resident or migratory fish or wildlife species or established native resident or migratory wildlife corridors, as the Project is part of none. Also, there are no native wildlife nursery sites on or near the Project site.

Due to the presence of trees and vegetation on the Project site, there is the potential for birds protected by the Federal Migratory Bird Treaty Act (MBTA) and Sections 3503, 3503.5, and 3513 of the California Fish and Game Code to nest at the site. The MBTA protects common and special status migratory birds and their nests and eggs. Bird species protected under the provisions of the MBTA are identified by the List of Migratory Birds (50 Code of Federal Regulations Section 10.13, as amended). Multiple sections of California Fish and Game Code provide protection for nesting birds and raptors. Section 3503 makes it unlawful to take, possess, or needlessly destroy the nest or eggs of any bird. Section 3503.5 specifically addresses raptors (i.e., birds of prey in the orders Falconiformes and Strigiformes) and makes it unlawful to take, possess, or destroy these birds or their nest or eggs. Section 3513 prohibits the take or possession of migratory non-game birds or any part of such bird, as designated by the MBTA. As such, the Project is subject to all requirements as set forth by the MBTA during construction and operations. Therefore, potential impacts associated with the substantial interference with the movement of any native resident or migratory fish or wildlife species or with an established native resident or migratory wildlife corridor, or the use of native wildlife nursery sites would be less than significant, and no mitigation would be required.

***e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?***

**Less than Significant Impact**. The proposed Project would involve the construction and operation of a McDonald's building and drive-thru and would include ancillary improvements associated with the commercial use, such as landscaping, trash enclosure, mechanical improvements and site lighting. The Project site is a vacant, previously disturbed parcel, with no existing native or sensitive biological resources on-site.

The proposed Landscape Plan (Exhibit 5) would consist of a hierarchy of plant materials including trees, shrubs, vines, grasses, and groundcover throughout the Project site. The Project would remove 17 existing trees on-site, none of which are located within the public right-of-way, and plant 25 new trees. The City does not have a tree preservation ordinance; however, the General Plan's Conservation Element, Policy CN 3.5, includes goals encouraging the increased planting of trees, bushes, and shrubs on private and public property (City of

Santa Ana 2022d). All trees located on-site are ornamental and are not subject to regulations as set forth by the SAMC. All tree removals and installations would be conducted in accordance with City standards and applicable permit requirements. Therefore, impacts would be less than significant associated with a conflict with local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance, would occur, and no mitigation would be required.

***f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?***

**No Impact**. The Project site is not within the boundaries of any an adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other approved local, regional, or State habitat conservation plan. Therefore, the proposed Project would not conflict with the provisions of an adopted HCP, NCCP, or other approved conservation plan. Therefore, no impacts would occur, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to biological resources; therefore, no mitigation measures are required.

# 4.5 CULTURAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5? | ☐ | ☐ | ☒ | ☐ |
| b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5? | ☐ | ☒ | ☐ | ☐ |
| c) Disturb any human remains, including those interred outside of formal cemeteries? | ☐ | ☐ | ☒ | ☐ |

## Introduction

### *Existing Setting*

Background research was conducted on the Project site to establish a thorough and accurate historic context, and to confirm the development history of the property. This included a review of a historic and archaeological record search conducted by Psomas on July 24, 2023 at the South-Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton. The SCCIC houses records of the California Historical Resources Information System for Los Angeles, Orange, Ventura, and San Bernardino Counties. The records search included a 0.5-mile radius around the Project site. The Cultural Resources Record Search, including the SCCIC records, is included in Appendix B of this IS/MND. Additional background research included a review of all available building permits on file with the City of Santa Ana; historical newspapers covering Santa Ana and Orange County via newspapers.com; historic aerial photographs of the project site via National Environmental Title Reference and the University of Santa Barbara FrameFinder Maps; and applicable primary and secondary sources on file with local libraries and repositories, such as the Built Environment Resource Database.

The SCCIC record search identified three prior cultural resources studies (Table 9) within the 0.5-mile search radius that were initiated due to planned residential developments and communication towers and sites. None of the three studies occurred within the Project site.

**TABLE 9**
**CULTURAL RESOURCE STUDIES WITHIN 0.5-MILE OF THE PROJECT SITE**

| Report No. | Year | Author(s) | Affiliation | Type of Study | Title of Study | Proximity to Project Site |
|---|---|---|---|---|---|---|
| OR-03096 | 2001 | Thanne, Michael D. | Law Engineering & Environmental Services, Inc. | Section 106 Cultural Resource Study | Review of Requirements Under the National Historic Preservation Act of 1966 Proposed Brannigan Tower Site 1440 E. Santa Clara. Avenue Santa Ana, Orange, County | Outside |
| OR-03529 | 2008 | Padon, Beth & Judith Marvin | Discovery Works, Inc. | Cultural Resource Study | Cultural Study Report Empire Homes Project (Tentative Tract Map 17231), 1584 E. Santa Clara Avenue, Santa Ana, Orange County, California | Outside |
| OR-04071 | 2010 | Bonner, Dianne F. | W.H. Bonner Associates | Cultural Resource Study | Records Search and Site Visit Results for the Proposed T-Mobile Site LA02933C (Edits Mini-Mart), located at 2151 East Santa Clara Avenue, Santa Ana, Orange County, California | Outside |
| Source: SCCIC 2023. | | | | | | |

The SCCIC records search did identify one previously recorded cultural resource within a 0.5-mile of the Project site. Cultural Resource P-30-179880 is a one-story frame residence built in 1914. The residence is not located within the Project site.

## Impact Analysis

***Would the Project:***

***a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?***

**Less than Significant Impact**. Based on the SCCIC literature reviews search and record search results, there are no documented historical resources identified on the Project site. However, two built environment resources over 45 years old were identified within the Project site: 2101 and 2109 East Santa Clara Avenue. The properties were recorded and evaluated for historical significance on the appropriate set of Department of Parks and

Recreation (DPR) 523 Forms in consideration of the California Register of Historic Places and City designation criteria and integrity requirements (See Historic Built Environment Assessment, prepared by South Environmental Report in Appendix C). Both properties were found not eligible under all State and local designation criteria due to a lack of significant historical associations and architectural merit. All data considered, no historical resources were identified within the Project site as a result of this analysis. Therefore, the proposed Project will have a less than significant impact on historical resources under CEQA. Thus, the Project's impact pertaining to a historic resource pursuant to Section 15064.5 is considered less than significant, and no mitigation is required.

***b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?***

**Less than Significant Impact with Mitigation Incorporated.** Based on the searches conducted, no archaeological resources were discovered on the Project site or within the 0.5-mile search radius of the site. However, there is a possibility that buried historical and/or archaeological materials would be uncovered during necessary subsurface excavations for the construction of the Project. To ensure no significant impacts would result, MM CUL-1 is required in the event that cultural resources (archaeological, tribal cultural resources) are inadvertently unearthed during excavation and grading. It requires that the Project proponent shall retain a qualified professional (i.e., archaeologist) to evaluate the significance of the finding and appropriate course of action. Implementation of MM CUL-1 would ensure that the potential for the destruction of any significant archaeological resources would be less than significant.

***c) Disturb any human remains, including those interred outside of formal cemeteries?***

**Less than Significant Impact.** There is no indication that human remains are present within the Project site, and the SCCIC records search does not indicate evidence of human remains within the 0.5-mile search radius of the site. However, construction activities may unearth previously undiscovered human remains.

In compliance with State and federal regulations, if human remains are encountered during excavation activities, all work shall halt at the site and or any nearby areas reasonably suspected to overlie adjacent remains, and the County Coroner shall be notified (RR CUL-1). The Coroner shall determine whether the remains are of forensic interest within two working days of receiving notification. If the Coroner, with the aid of the qualified archaeologist, determines that the remains are prehistoric, the Coroner shall contact the Native American Heritage Commission (NAHC) within 24 hours of the determination. The NAHC shall be responsible for designating the most likely descendant, who will be responsible for the ultimate disposition of the remains, as required by Section 5097.98 of the California Public Resources Code. Compliance with RR CUL-1 would ensure that impacts on human remains would be less than significant. No mitigation is required.

## Mitigation Measures and Regulatory Requirements

The MMs and RRs are applicable to the proposed Project and incorporated herein as standard conditions of approval.

**MM CUL-1** Prior to the issuance of the grading permit, the Project Applicant shall provide written evidence to the City that the Applicant has retained an Orange County-certified archaeologist to observe grading activities within previously undisturbed soils, and to salvage and catalogue archaeological resources as necessary. The archaeologist shall be present at the pre-grade conference, shall establish procedures for archaeological resource surveillance within previously undisturbed soils, and shall establish, in cooperation with the Applicant, procedures for temporarily halting or redirecting work to permit the sampling, identification, and evaluation of the artifacts as appropriate. If archaeological resources are inadvertently unearthed during excavation activities, the contractor shall immediately cease all earth-disturbing activities within a 100-foot radius of the area of discovery and the archaeologist and City shall be notified immediately. If the archaeological resources are found to be significant, the archeologist, in consultation with the City, shall determine appropriate actions for exploration and salvage. After the find has been appropriately avoided or mitigated, work in the area may resume.

**RR CUL-1** In the event that human remains are unearthed during excavation and grading activities, all activity shall cease immediately. Pursuant to State Health and Safety Code Section 7050.5, no further disturbance shall occur until the County coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the NAHC.

# 4.6 ENERGY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | ☐ | ☐ | ☒ | ☐ |
| b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | ☐ | ☐ | ☐ | ☒ |

## Impact Analysis

Energy calculations and data are provided in Appendix D to this IS/MND.

***Would the Project:***

***a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?***

**Less than Significant Impact.** Southern California Edison (SCE) and the Southern California Gas Company (SCGC) are utility companies that currently provide and would continue to provide electrical and natural gas services to the Project site. Compliance with energy efficiency and conservation policies and regulations is discussed in this section.

The Santa Ana General Plan has developed attainable conservation goals and policy actions that would assist in energy conservation within the community. These conservation goals and policy actions include:

**Goal CN-3:** Energy Resources – Reduce consumption of and reliance on nonrenewable energy and support the development and use of renewable energy sources.

> POLICY CN-3.1 INTERAGENCY COORDINATION
> Consult with regional agencies and utility companies to pursue energy efficiency goals and expand renewable energy strategies.
>
> POLICY CN-3.2 EDUCATION PROGRAMS
> Support education programs to provide information on energy conservation and alternatives to nonrenewable energy sources.
>
> POLICY CN-3.3 DEVELOPMENT PATTERNS
> Promote energy-efficient development patterns by clustering mixed-use developments and compatible uses adjacent to public transportation.

POLICY CN-3.4 SITE DESIGN
Encourage site planning and subdivision design that incorporates the use of renewable energy systems.

POLICY CN-3.5 LANDSCAPING
Promote and encourage the planting of native and diverse tree species to improve air quality, reduce heat island effect, reduce energy consumption, and contribute to carbon mitigation with special focus in environmental justice areas.

POLICY CN-3.6 LIFE CYCLE COSTS
Encourage construction and building development practices that use renewable resources and life cycle costing in construction and operating decisions.

POLICY CN-3.7 ENERGY CONSERVATION DESIGN AND CONSTRUCTION
Incorporate energy conservation features in the design of new construction and rehabilitation projects.

POLICY CN-3.8 ENERGY-EFFICIENT PUBLIC FACILITIES
Promote and encourage efficient use of energy and the conservation of available resources in the design, construction, maintenance, and operation of public facilities, infrastructure, and equipment.

POLICY CN-3.9 ENERGY GENERATION IN PUBLIC FACILITIES
Encourage and support the generation, transmission, use, and storage of locally distributed renewable energy in order to promote energy independence, efficiency, and sustainability.

POLICY CN-3.10 ENERGY CONSERVATION IN PUBLIC PROJECTS
Work with businesses and contractors that use energy efficient practices in the provision of services and equipment for City construction projects.

POLICY CN-3.11 ENERGY-EFFICIENT TRANSPORTATION INFRASTRUCTURE
Continue to support public and private infrastructure for public transportation such as bus routes, rail lines, and the OC Streetcar.

The State of California has also adopted efficiency design standards within the Title 24 Building Standards and California Green Building Standards Code (CALGreen) requirements. Title 24 of the California Code of Regulations (CCR, specifically, Part 6) is California's Energy Efficiency Standards for Residential and Non-residential Buildings (**RR ENE-1**). Title 24 was established by the California Energy Commission (CEC) in 1978 in response to a legislative mandate to create uniform building codes to reduce California's energy consumption and to provide energy efficiency standards for residential and non-residential buildings. The 2022 California Green Building Standards Code (24 CCR, Part 11), also known as the CALGreen Code, contains mandatory requirements for new residential and nonresidential buildings throughout California (**RR ENE-2).** The development of the CALGreen Code is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water

consumption; and (4) respond to the directives by the Governor. The Code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction. The regulation of energy efficiency for residential and non-residential structures is established by the CEC and its California Energy Code.

## *Construction*

Project construction would require the use of construction equipment for demolition, grading, and building activities. All off-road construction equipment is assumed to use diesel fuel. Construction also includes the vehicles of construction workers and vendors traveling to and from the Project site.

Off-road construction equipment use was calculated from the equipment data (mix, hours per day, horsepower, load factor, and days per phase) provided in the CalEEMod construction output files included in Appendix A. The total horsepower hours for the Project were then multiplied by fuel usage estimates per hours of construction activities included in the Off-Road Model.

Fuel consumption from construction worker, vendor, and delivery/haul trucks was calculated using the trip rates and distances provided in the CalEEMod construction output files. Total vehicle miles traveled (VMT) was then calculated for each type of construction-related trip and divided by the corresponding miles per gallon factor using CARB's EMissions FACtor (EMFAC) 2021 model (CARB 2022a). EMFAC provides the total annual VMT and fuel consumed for each vehicle type. Construction vendor and delivery/haul trucks were assumed to be heavy-duty diesel trucks.

As shown in Table 10, Energy Use During Construction, a total of 380 gallons of gasoline and 1,581 gallons of diesel fuel is estimated to be consumed during Project construction.

**TABLE 10**
**ENERGY USE DURING CONSTRUCTION**

| Source | Gasoline – gallons | Diesel Fuel – gallons |
|---|---|---|
| Off-road Construction Equipment | 93 | 1,508 |
| Worker Commute | 256 | 1 |
| Vendors | 31 | 0 |
| On-road Haul | 0 | 72 |
| **Totals** | 380 | 1,581 |
| Sources: based on data from CalEEMod, OffRoad, and EMFAC2021. Energy data can be found in Appendix D to this IS/MND. | | |

Fuel energy consumed during construction would be temporary in nature and would not represent a significant demand on energy resources. The Project would also implement best management practices such as requiring equipment to be properly maintained and minimize

idling. Furthermore, there are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in other parts of the State. Energy used in the construction of the Project would enable the development of buildings that meet the latest energy efficiency standards as detailed in California's Title 24 building standards. Therefore, the proposed construction activities would not result in inefficient, wasteful, or unnecessary fuel consumption.

## *Operations*

The proposed Project would promote building energy efficiency through compliance with energy efficiency standards (Title 24 and CALGreen). The Project site is currently developed with residential uses that complied with older less stringent building energy efficiency standards. The proposed Project is required to comply with the latest (2022) building energy efficiency standards adopted by the State of California. The estimated energy consumption attributable to the Project is shown in Table 11, below.

**TABLE 11**
**ENERGY USE DURING OPERATIONS**

| Land Use | Gasoline | Diesel | Natural Gas (kBTU/yr) | Electricity (kWh/yr) |
|---|---|---|---|---|
| Project Land Uses | 110,363 | 9,395 | 10,809,840 | 3,512,760 |
| Santa Ana General Plan | 148,001,638 | 19,896,581 | 27,074,864 | 1,189,836,014 |
| Percent of Project Use | 0.07% | 0.05% | 0.22% | 0.22% |

kBTU/yr: one thousand British Thermal Units; kWh/yr: kilowatt hours per year.
Sources: Energy data can be found in Appendix D of this IS/MND.

The CEC anticipates the new 2022 Building Energy Efficiency Standards would result in a reduction of energy use as compared to previous energy standards (CEC 2022). Therefore, the new buildings would be more energy efficient than the existing buildings to be demolished. The Project's energy efficient building is consistent with Policy CN-3.7 Energy Conservation Design and Construction. The proposed restaurant use is also located within a residential area near existing bus routes which provides a restaurant that supports the local community and minimizes vehicle trips and trip lengths. As such, the Project is consistent with Policy CN-3.3 Development Patterns which promotes compatible uses adjacent to public transportation. In terms of whether the operations phase would result in a wasteful, inefficient, or unnecessary consumption of energy resources, during Project operations, the Project would incorporate indoor water conservation measures such as low-flow fixtures for handwashing sinks, toilet and urinal flush valves, and dish sprayers. Beverage and ice machines would include low water waste technology and the proposed RO filtration system is highly efficient and would limit the amount of bypass water. Therefore, the proposed Project would not result in an inefficient, wasteful, or unnecessary consumption of energy. There would be a less than significant impact, and no mitigation is required.

***b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?***

**No Impact.** The Project would be required to comply with the State of California's Title 24 Energy Efficiency Standards and Title 24 Building Standards. As discussed previously, the latest building standards would incorporate the CEC's building energy efficiency standards, which would reduce energy consumption through the incorporation of energy efficiency requirements. This would result in efficient use of electricity, natural gas, and water as compared to older commercial buildings developed under less stringent Title 24 requirements. The Project's incorporation of the latest energy and resource efficiency measures are consistent with Policy CN-3.7 Energy Conservation Design and Construction of the General Plan which seeks to incorporate energy conservation features in the design of new construction and rehabilitation projects.

As such, the development of new Project-related buildings would result in greater energy efficiency by replacing the existing less efficient older buildings consistent with the energy efficiency goals of the Santa Ana General Plan, consistent with and supportive of applicable plans.

As the Project complies with the latest energy efficiency standards and would be relatively small in magnitude relative to the energy consumption presented in the General Plan, the Project would not result in a substantial amount of energy use as illustrated in Table 11, the Project would also be consistent with energy conservation goals established in the Santa Ana General Plan (discussed previously) and would not conflict with or obstruct a State or local plan for renewable energy or energy efficiency. There would be a less than significant impact, and no mitigation is required.

## Regulatory Requirements

**RR ENE-1** The Project must be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods.

**RR ENE-2** The Project is subject to the California Green Building Standards Code (CALGreen) (CCR, Title 24, Part 11). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods.

## Mitigation Measures

Project implementation would not result in significant impacts related to energy; therefore, no mitigation measures are required.

# 4.7 GEOLOGY AND SOILS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving: | | | | |
| i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? | ☐ | ☐ | ☐ | ☒ |
| ii) Strong seismic groundshaking? | ☐ | ☐ | ☒ | ☐ |
| iii) Seismic-related ground failure, including liquefaction? | ☐ | ☐ | ☒ | ☐ |
| iv) Landslides? | ☐ | ☐ | ☒ | ☐ |
| b) Result in substantial soil erosion or the loss of topsoil? | ☐ | ☐ | ☒ | ☐ |
| c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse? | ☐ | ☐ | ☒ | ☐ |
| d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property? | ☐ | ☐ | ☒ | ☐ |
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? | ☐ | ☐ | ☐ | ☒ |
| f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | ☐ | ☒ | ☐ | ☐ |

## Introduction

A Geotechnical Engineering Report (Geotechnical Report) was prepared by Universal Engineering Sciences on November 4, 2021, and included as Appendix E for the proposed Project to assess the geotechnical conditions on the Project site and provide preliminary geotechnical recommendations for planning of the Project.

## Impact Analysis

***Would the Project:***

***a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:***

***i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?***

**No Impact.** Ground rupture occurs when movement on a fault breaks through the surface. The State of California has established Earthquake Fault Zones for the purpose of mitigating the hazard of fault rupture by prohibiting the location of most human occupancy structures across the traces of active faults. The subject site is not located within a State of California Alquist-Priolo Earthquake Fault Zone, and no active faults are known to underlie or project towards the site. As such, the likelihood of fault rupture occurring at the site is low (Universal Engineering Sciences 2021). There is no impact associated with surface rupture from an Alquist-Priolo Fault Zone, and no mitigation is required.

***ii) Strong seismic groundshaking?***

**Less than Significant Impact.** Strong seismic ground shaking has the potential to occur on the Project area and in the surrounding area due to high rates of seismic activity throughout Southern California. The extent of ground shaking associated with an earthquake depends on the size of the earthquake and the geologic material of the underlying area. As stated above, no active faults are known to underlie or project towards the site. However, Santa Ana, as well as most of Southern California, is subject to seismic shaking from local faults. The Project improvements would comply with applicable provisions of the most recent California Building Code (CBC), as well as City roadway design requirements, including requirements regarding seismic design and structural features. Additionally, the Geotechnical Evaluation concludes that the proposed Project is feasible from a geotechnical standpoint with implementation of recommendations outlined in the Geotechnical Evaluation. These regulations detail specific measures, including seismic design parameters, to minimize the risk of loss, injury, or death resulting from strong ground shaking. Therefore, there would be a less than significant impact from strong seismic ground shaking, and no mitigation is required.

***iii) Seismic-related ground failure, including liquefaction?***

**Less Than Significant Impact**. Liquefaction occurs when the pore pressures generated within a soil mass approach the effective overburden pressure. Liquefaction of soils may be caused by cyclic loading such as that imposed by ground shaking during earthquakes. The increase in pore pressure results in a loss of strength, and the soil then can undergo both horizontal and vertical movements, depending on the site conditions. Other phenomena associated with soil liquefaction include sand boils, ground oscillation, and loss of foundation bearing capacity. Liquefaction is generally known to occur in loose, saturated, relatively clean, fine-grained cohesionless soils at depths shallower than approximately 50 feet.

Factors to consider in the evaluation of soil liquefaction potential include groundwater conditions, soil type, grain size distribution, relative density, degree of saturation, and both the intensity and duration of ground motion (Universal Engineering Sciences 2021).

A review of the State of California Seismic Hazard Zone Map for the Orange Quadrangle indicates the site is not located within an area identified as having a potential for liquefaction. Additionally, based on the lack of shallow ground water, and uniform soil stratum, the potential for liquefaction to impact the proposed improvements is considered low (Universal Engineering Sciences 2021). Therefore, the Project would not result in a substantial adverse effect, including the risk of loss, injury, or death, due to seismic-related ground failure, including liquefaction Therefore, less than significant impacts would occur, and no mitigation is required.

***iv) Landslides?***

**Less Than Significant Impact.** Based on the Geotechnical Report's review of geologic maps, literature, topographic maps, aerial photographs, and the subsurface evaluation, no landslides or related features underlie or are adjacent to the subject site. Due to the relatively level and limited gradient changes of the site and surrounding areas, the potential for landslides at the Project site is considered low to negligible (Universal Engineering Sciences 2021). Therefore, the Project would not result in a substantial adverse effect, including the risk of loss, injury, or death, due to landslides. Therefore, less than significant impacts would occur, and no mitigation is required.

***b) Result in substantial soil erosion or the loss of topsoil?***

**Less than Significant Impact.** The Project site is fully developed with residential building, surface parking lots, and associated site improvements and has a relatively flat topography. During demolition and construction activities, temporary soil erosion may occur due to soil disturbance and the removal of buildings and paved surfaces. In addition, soil erosion due to rainfall and wind may occur if unprotected soils are exposed during construction. The Project site is generally underlain by fill and young alluvial fan deposits (Qyf).

As the Project site includes less than one acre of land area (0.82 acre), it would not be required to obtain an NPDES permit for construction activities or coverage under the NPDES Construction General Permit. However, the Project has prepared a Water Quality Management Plan (WQMP), which was prepared in compliance with the NPDES program. Compliance with the WQMP would provide erosion control, sediment control, tracking, waste management, and construction site maintenance Best Management Programs (BMPs) to reduce the potential for soil and wind erosion during construction activities.

As discussed further in Threshold 4.10, Hydrology and Water Quality, the proposed Project would install a catch basin and detention basin system, and stormwater would be pumped to the existing curb and gutter on Santa Clara Ave. The surface runoff flow during proposed conditions would be less than or equal to existing conditions and would not result in additional erosion or siltation. There would be minimal areas of exposed soils following completion of the proposed Project where erosion could occur. Site improvements and

landscaping would also prevent long-term erosion. Therefore, operation-related soil erosion would be less than significant, and no mitigation is required.

***c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?***

**Less than Significant Impact.** As discussed above, the Project site is not located in a potential liquefaction zone and the potential for landslides at the site is considered low. Therefore, the Project would not result in on-or off-site landslides and liquefaction. The proposed Project would not introduce any new topographical features or elements that would change the existing geologic setting of the Project area, and the majority of the area is paved. As such, on-site geologic and soils issues such as on-site soil stability including landslides, lateral spreading, subsidence, liquefaction, and collapse are not significant due to the nature of the Project. Therefore, implementation of the proposed Project would not result in impacts associated with unstable geologic conditions. Impacts related to geologic unit stability that could result in lateral spreading, subsidence, liquefaction, or collapse would be less than significant. No mitigation is required.

***d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?***

**Less than Significant Impact.** Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content. The onsite fill consists of sandy silt within the soils encountered near the ground surface. Expansive soils contain significant amounts of clay particles that swell considerably when wet and shrink when dried. Changes in soil moisture content can result from rainfall, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors, and may cause unacceptable settlement or heave of structures, concrete slabs supported on-grade, or pavements supported over these materials. Depending on the extent and location below finished subgrade, these soils could have a detrimental effect on the proposed construction. Generally, the Project site material exhibits "very low" expansion potential (Universal Engineering Sciences 2021). Therefore, Project impacts related to expansive soils would be less than significant, and no mitigation is required.

***e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?***

**No Impact.** The use of septic tanks or alternative wastewater disposal systems is not proposed by the Project. Therefore, no impact would result, and no mitigation is required.

***f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?***

**Less than Significant Impact with Mitigation Incorporated.** The Project site is situated in the southeastern portion of the Los Angeles Basin, which contains sedimentary rocks of Pliocene and Quaternary age that are between 5,000 to 13,000 feet thick. According to the

USGS 7.5-Minute Santa Ana Quadrangle Map, the Project site is underlain by undifferentiated young alluvial deposit (Qyf) that typically consists of unconsolidated to slightly consolidated, undissected to slightly dissected boulders, cobbles, gravels, sands, and silt deposits issued from a very confined valley or canyon. Based on the subsurface investigation conducted as a part of the Geotechnical Report, earth materials encountered are consistent with the Santa Ana Quadrangle Map, and the site consists of fill overlaying young alluvial fan deposits. In general, the soil consists of light brown to brown, dry to damp, medium dense to very dense, clayey and silty sands. The site slopes gently to the southwest and has an elevation of 188 feet above msl (Universal Engineering Sciences 2021).

This analysis is based on the results of a literature review and records check conducted through the Natural History Museum (LACM) of Los Angeles County and a review of geologic maps and aerials of the Project site. The paleontological records search was completed on August 13, 2023. The record search included a thorough search of the LACM paleontology collection records for the locality and specimen data for the Project site and surrounding area. The record search did not identify any fossil localities within the site. However, four fossil localities were located nearby from the same sedimentary deposits that occur in the Project site, either at the surface or at depth. These localities included sheep (*Ovis*), rodent (*Rodentia*), Dugong clade (*Dugongidae*), sloth (*Mylodontidae*), horse (*Equus*), several species of unspecified mammals, and marine fossils.

As indicated above, the Project site is generally underlain by Quaternary-aged young Holocene alluvial soils, which could contain unknown fossils. However, the site history and geotechnical analysis indicates the contemplated earthmoving activities would take place in previously disturbed soils, which consist of re-deposited alluvial soil and artificial fill and excavation would be to a maximum depth between 5 to 6 feet below the surface.

Nevertheless, while paleontological resources are not anticipated to be discovered during excavations, if grading activities encounter unknown paleontological resources, implementation of MM GEO-1 would ensure this impact to be less than significant. Therefore, this impact would be less than significant with mitigation incorporated.

## Mitigation Measures

The following MM is applicable to the proposed Project and incorporated herein as standard conditions of approval.

**MM-GEO-1** Prior to commencement of earthmoving activities, the Project Applicant shall retain a qualified Orange-County certified Paleontologist, for on-call services in the event of a discovery of paleontologically sensitive rock formations during ground disturbance activities. Should these resources be found during ground-disturbing activities for the Project, the Paleontologist shall first determine whether it is a significant paleontologically sensitive fossil locality or rock formation. If the above-mentioned resources are found during earthmoving activities, the Paleontologist shall formulate a report and a mitigation plan in consultation with the City of Santa Ana. For paleontological resources, the disposition of the resources shall be subject to approval by the

City. All recovered paleontologically sensitive fossils and rock formations shall be deposited in an accredited institution or museum, such as the Natural History Museum of Los Angeles County. If resources are discovered, work may proceed in other areas of the site, subject to the direction of the Paleontologist.

# 4.8 GREENHOUSE GAS EMISSIONS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? | ☐ | ☐ | ☒ | ☐ |
| b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases? | ☐ | ☐ | ☒ | ☐ |

## Introduction

This section discusses the existing GHG emissions setting and the Project's potential impacts related to GHG emissions. GHG emissions were calculated for the Project by using CalEEMod version 2022.1.1.0 (CAPCOA 2022). CalEEMod is a computer program accepted by the SCAQMD that can be used to estimate criteria pollutant and GHG emissions associated with land development projects in California. CalEEMod has separate databases for specific counties and air districts. The Orange County database was used for the Project. For this analysis, the results are expressed in metric tons of carbon dioxide equivalent per year ($MTCO_2e/yr$).

### *Existing Setting*

Climate change refers to any significant change in measures of climate (e.g., average temperature, precipitation, or wind patterns) over a period of time. Climate change may result from natural factors, natural processes, and human activities that change the composition of the atmosphere and alter the surface and features of the land. Significant changes in global climate patterns have recently been associated with global warming, which is an average increase in the temperature of the atmosphere near the Earth's surface; this is attributed to an accumulation of GHG emissions in the atmosphere. GHGs trap heat in the atmosphere which, in turn, increases the Earth's surface temperature. Some GHGs occur naturally and are emitted to the atmosphere through natural processes, while others are created and emitted solely through human activities. The emissions of GHGs through fossil fuel combustion in conjunction with other human activities are associated with global warming.

GHGs, as defined under California's Assembly Bill (AB) 32, include carbon dioxide ($CO_2$), methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. General discussions on climate change often include water vapor, atmospheric ozone, and aerosols in the GHG category. Water vapor and atmospheric ozone are not gases that are formed directly in the construction or operation of development projects, nor can they be controlled in these projects. Aerosols are not gases. While these elements have a role in climate change, they are not considered by either regulatory bodies, such as CARB, or climate change groups, such as the California Climate Action Registry, as gases to be reported or

analyzed for control. Therefore, no further discussion of water vapor, atmospheric ozone, or aerosols is provided.

## *Regulatory Background*

On June 1, 2005, Governor Arnold Schwarzenegger signed Executive Order (EO) S-3-05, which calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

The principal overall State plan and policy adopted for the purpose of reducing GHG emissions is AB 32 (California Global Warming Solutions Act of 2006). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on statewide GHG emissions. AB 32 recognizes that California is the source of substantial amounts of GHG emissions. The statute states the following:

> Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

In order to avert these consequences, AB 32 establishes a State goal of reducing GHG emissions to 1990 levels by the year 2020, codifying the goal of EO S-3-05.

CARB approved a Climate Change Scoping Plan as required by AB 32 in 2008; this plan is required to be updated every five years. The Climate Change Scoping Plan proposes a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (CARB 2008). The Climate Change Scoping Plan has a range of GHG-reduction actions which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as a cap-and-trade system, and an AB 32 implementation regulation to fund the program. On February 10, 2014, CARB released the Draft Proposed First Update to the Climate Change Scoping Plan (CARB 2014). The board approved the final First Update to the Climate Change Scoping Plan on May 22, 2014. The first update describes California's progress towards AB 32 goals, stating that "California is on track to meet the near-term 2020 greenhouse gas limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). The 2017 Scoping Plan Update incorporates the 40 percent reduction to 1990 emissions levels by 2030. The 2022 Scoping Plan assesses progress towards achieving carbon neutrality by 2045 or earlier through the reduction of emissions by 85 percent below 1990 levels (CARB 2022b).

The Sustainable Communities and Climate Protection Act of 2008, Senate Bill (SB) 375, established a process to coordinate land use planning, regional transportation plans, and funding priorities in order to help California meet the GHG reduction goals established in AB 32. SB 375 required the SCAG to incorporate the SCS into its RTPs that will achieve GHG emission reduction targets though several measures, including land use decisions. SCAG's SCS is included in the SCAG 2020–2045 RTP/SCS (SCAG 2020a). The goals and policies of the RTP/SCS that reduce VMT focus on transportation and land use planning that include building infill projects; locating residents closer to where they work and play; and designing communities so there is access to high quality transit service.

On April 29, 2015, Governor Brown signed EO B-30-15, which ordered an interim statewide GHG emission reduction target to reduce GHG emissions to 40 percent below 1990 levels by 2030 to ensure California meets its target of reducing GHG emissions to 80 percent below 1990 levels by 2050. Five key goals for reducing GHG emissions through 2030 include (1) increasing renewable electricity to 50 percent; (2) doubling the energy efficiency savings achieved in existing buildings and making heating fuels cleaner; (3) reducing petroleum use in cars and trucks by up to 50 percent; (4) reducing emissions of short-lived climate pollutants; and (5) managing farms, rangelands, forests, and wetlands to increasingly store carbon. EO B-30-15 also directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

On September 8, 2016, the Governor signed Senate Bill 32 (SB 32) to codify the GHG reduction goals of EO B-30-15, requiring the State to reduce GHG emissions by 40 percent below 1990 levels by 2030 (Health and Safety Code Section 38566). As stated above, this goal is expected to keep the State on track to meeting the goal set by EO S-3-05 of reducing GHG emissions by 80 percent below 1990 levels by 2050.

AB 197 was signed at the same time to ensure that the SB 32 goals are met by requiring CARB to provide annual reports of GHGs, criteria pollutants, and TACs by facility, City and sub-county level, and sector for stationary sources and at the County level for mobile sources. It also requires the CARB to prioritize specified emission reduction rules and regulations and to identify specified information for emission reduction measures (e.g., alternative compliance mechanism, market-based compliance mechanism, and potential monetary and nonmonetary incentive) when updating the Scoping Plan.

SB 350, signed October 7, 2015, is the Clean Energy and Pollution Reduction Act of 2015. SB 350 is the implementation of some of the goals of EO B-30-15. The objectives of SB 350 are as follows:

1. To increase from 33 percent to 50 percent, the procurement of our electricity from renewable sources
2. To double the energy efficiency savings in electricity and natural gas final end uses of retail customers through energy efficiency and conservation

The text of SB 350 sets a December 31, 2030, target for 50 percent of electricity to be generated from renewable sources. SB 350 also requires the State to double statewide energy efficiency savings in electricity and natural gas end uses by 2030. Additionally, SB

350 sets requirements for large utilities to develop and submit integrated resources plans, which detail how utilities would meet their customers' resource needs, reduce GHG emissions, and integrate clean energy resources (CEC 2023a).

On September 10, 2018, Governor Brown signed SB 100, the 100 Percent Clean Energy Act of 2018. SB 100 requires renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers and 100 percent of electricity procured to serve state agencies by December 31, 2045. This policy requires the transition to zero-carbon electric systems that do not cause contributions to increase of GHG emissions elsewhere in the western electricity grid (CEC 2023b). SB 100 also creates new standards for the Renewable Portfolio Standard goals established by SB 350 in 2015. Specifically, the bill increases required energy from renewable sources for both investor-owned utilities and publicly owned utilities from 50 percent to 60 percent by 2030.

Further, on September 10, 2018, Governor Brown also signed California EO B-55-18, which sets a new statewide goal of carbon neutrality as soon as possible, and no later than 2045 and achieve net negative emissions thereafter. EO B-55-18 was added to the existing Statewide targets of reducing GHG emissions, including the targets previously established by Governor Brown of reducing emissions to 40 percent below 1990 levels by 2030 (EO B-30-15 and SB 32), and by Governor Schwarzenegger of reducing emissions to 80 percent below 1990 levels by 2040 (EO S-3-05).

The Santa Ana Climate Action Plan (CAP) provides a framework for reducing GHG emissions and managing resources to best prepare for a changing climate (City of Santa Ana 2015). In 2014, the City Council adopted emissions reduction goals for the CAP including a goal to reduce community wide emissions by 30% by 2035 (City of Santa Ana 2015). The plan outlines baseline metrics and goals for GHG reduction, and establishes timelines that are consistent with state policies and SB 100. Additionally, the CAP recommends GHG emissions targets that are consistent with the reduction targets of the State of California, including AB 32, and presents strategies for each category of GHG emissions (e.g., transportation, emergency consumption, water consumption and waste disposal) that will make it possible for the City to meet the recommended targets.

## *Thresholds of Significance*

Because the City has a CAP which demonstrates how it will meet AB 32 requirements, the determination of whether a project would generate GHG emissions that may have a significant impact on the environment or conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions can be made by determining the consistency of that project with the CAP. However, the City's CAP does not address recent requirements established by SB 32 to reduce GHG emissions by 40 percent below 1990 levels by 2030. Therefore, in addition to establishing the Project's consistency with the CAP, the determination as to whether the proposed Project would generate GHG emissions that may have a significant impact on the environment is also determined by comparing the Project's emissions to the suggested SCAQMD threshold for all land use projects, discussed below.

On December 5, 2008, the SCAQMD Governing Board presented the staff proposal for a tiered threshold approach wherein Tier 1 determines if a project qualifies for an applicable CEQA exemption, Tier 2 determines consistency with GHG reduction plans, and Tier 3 proposes a numerical screening value as a threshold. At their September 28, 2010, meeting, the Working Group suggested a Tier 3 threshold of 3,000 $MTCO_2e$ per year for all land use types (SCAQMD 2010). Tier 4 determines if the project meets performance standards. Tier 4 has three options: Option 1—percent emission reduction target; Option 2—early implementation of applicable measures; and Option 3—sector-based standard. Tier 5 determines mitigation for CEQA offsets.

In the absence of adopted thresholds, the Tier 3 standard of 3,000 $MTCO_2e$/yr is used for this analysis. The development of project-level thresholds in accordance with CEQA is an ongoing effort at the State, regional, and County levels, and significance thresholds may differ for future projects based on new or additional data and information that may be available at that time for consideration. The City of Santa Ana has not officially adopted any GHG CEQA significance threshold. The City defers to assessment methods and significance thresholds developed by the SCAQMD. This impact analysis evaluates consistency with regulatory programs designed to reduce GHG emissions and that contribute to the achievement of AB 32's and SB 32's goals as the primary significance criterion. In addition, this impact analysis also evaluates the Project's estimated emissions compared to the Tier 3 threshold for impacts related to GHG emissions proposed by staff members of the SCAQMD, but not adopted by the SCAQMD Board.

## Impact Analysis

***Would the Project:***

***a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?***

**Less than Significant Impact.** Project GHG emissions were estimated using CalEEMod, which is designed to model construction and operational emissions for land development projects and allows for the input of project- and County-specific information. For modeling purposes, construction activities were based on the Project's construction assumptions and default assumptions derived from CalEEMod. The input for operational emissions was based on the vehicle trip generation rates provided in the Transportation Analysis (Appendix K) and the proposed building area. Additional input details are included in Appendix A, Air Quality and Greenhouse Gas Technical Report.

The estimated construction GHG emissions for the proposed Project would be 54 $MTCO_2e$, as shown in Table 12, Estimated Greenhouse Gas Emissions from Construction.

**TABLE 12**
**ESTIMATED GREENHOUSE GAS EMISSIONS FROM CONSTRUCTION**

| Year | Emissions ($MTCO_2e$) |
|---|---|
| 2024 | 54 |
| **Total** | **54** |

$MTCO_2e$: metric tons of carbon dioxide equivalent

Notes:
- Totals may not add due to rounding variances.
- Detailed calculations in Appendix A.

Operational phase GHG emissions would come primarily from vehicle trips; other sources including electricity and water consumption; natural gas for space and water heating; and gasoline-powered landscaping and maintenance equipment. Table 13, Estimated Annual Greenhouse Gas Emissions from Project Operation, shows the annual GHG emissions from proposed Project's operations. It should be noted that the emissions provided in Table 13 do not deduct existing GHG emissions from current on-site uses.

**TABLE 13**
**ESTIMATED ANNUAL GREENHOUSE GAS EMISSIONS FROM PROJECT OPERATION**

| Source | Emissions ($MTCO_2e/yr$) |
|---|---|
| Area | <1 |
| Energy | 1,134 |
| Mobile | 1,053 |
| Waste | 14 |
| Water | 2 |
| Refrigeration | 1 |
| **Total Operational Emissions** | **2,204** |

$MTCO_2e/yr$: metric tons of carbon dioxide equivalent per year

Notes:
- Totals may not add due to rounding variances.
- Detailed calculations in Appendix A.

Because impacts from construction activities occur over a relatively short period of time, they contribute a relatively small portion of the overall lifetime Project GHG emissions. In addition, GHG emission reduction measures for construction equipment are relatively limited. The SCAQMD recommends that construction emissions be amortized over a 30-year project lifetime so that GHG reduction measures address construction GHG emissions as part of the operational GHG reduction strategies (SCAQMD 2008). Therefore, construction and operational emissions are combined by amortizing the construction and operations over an assumed 30-year Project lifetime. This combination is shown in Table 14, Estimated Total

Project Annual Greenhouse Gas Emissions, using the proposed Project's amortized construction and operational emissions.

**TABLE 14**
**ESTIMATED TOTAL PROJECT ANNUAL GREENHOUSE GAS EMISSIONS**

| Source | Emissions ($MTCO_2e/yr^a$) |
|---|---|
| Construction (Amortized) | 2 |
| Operations (Table 14) | 2,204 |
| **Total[b]** | **2,206** |
| **SCAQMD-Recommended Threshold (Tier 3)** | **3,000** |
| **Exceeds Threshold?** | **No** |

$MTCO_2e/yr$: metric tons of carbon dioxide equivalent per year; SCAQMD: South Coast Air Quality Management District.

[a] Total derived by dividing construction emissions (see Table 11) by 30.

[b] Total annual emissions are the sum of amortized construction emissions and operational emissions.

As discussed above, there are no established applicable quantitative federal, State, regional, or local CEQA significance criteria for GHG emissions for non-industrial projects in the SoCAB. The SCAQMD has proposed, but not adopted, a threshold of 3,000 $MTCO_2e$ per year for non-industrial land use projects. As shown, the estimated GHG emissions from the Project, without taking credit for the GHG emissions from existing uses that would be removed with Project implementation, would be less than this suggested threshold. The impact would be less than significant, and no mitigation is required.

***b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?***

**Less than Significant Impact.** As discussed above, the principal State plan and policy adopted for the purpose of reducing GHG emissions is SB 32, whose quantitative goal is to reduce GHG emissions to 1990 levels by 2020. This goal is further supplemented by SB 32, which established a reduction target of at least 40 percent below 1990 emissions by 2030, and by EO B-30-15 and EO S-3-05, which sets an 80 percent reduction below 1990 emissions by 2050.

The 2022 Scoping Plan implements the reduction target adopted under SB 32 and seeks to reduce GHG emissions through a number of measures. Those that are applicable to the Project include the development of pedestrian infrastructure which promotes non-automobile transportation options, the development of energy efficient buildings, reduction of VMT by providing local employment opportunities, supporting California's EV mandate by providing EV chargers, onsite employee EV usage, as well as other energy efficiency and conservation measures.

The Project would remove the existing 8-foot sidewalk and replace it with a 10-foot sidewalk per City of Santa Ana Standard Plan 1104, which would connect to and provide continuation of the existing sidewalk areas along East Santa Clara Avenue. This Project element would be consistent with the pedestrian infrastructure goals of the 2022 Scoping Plan. Project operations would generate approximately 36 new jobs, providing local employment consistent with the Scoping Plan.

The regulations, plans, and polices adopted for the purpose of reducing GHG emissions that are directly applicable to the Project include the Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings and the Title 24 California Green Building Standards Code. Adherence to standard requirements would ensure that the Project would comply with both of these regulations. The Project would also be replacing an older structure which was built in accordance with an outdated version of the Title 24 California Green Building Standards Code; the Project would be built in compliance with the most recent 2022 Title 24 Energy Efficiency Standards. This would be consistent with the Scoping Plan's goals associated with the development energy efficient buildings. In addition to 3 EV installed parking stalls, the Project would provide 8 EV make ready stalls, consistent with the EV goals established within the Scoping Plan. As such, the Project would be consistent with consistent with SB 32 and the associated Scoping Plan.

At a regional level, SCAG has adopted Connect SoCal, the 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy. Rooted in the 2008 and 2012 RTP/SCS plans, Connect SoCal's "Core Vision" centers on maintaining and better managing the existing transportation network while expanding mobility choices. The plan identifies six components of the Core Vision: Sustainable Development, System preservation and Resilience, Demand and System Management, Transit Backbone, Complete Streets, and Goods Movement. As discussed above, the Project would develop a new sidewalk, generate new local employment opportunities, replace two existing older structures with a more energy efficient building, and provide new EV equipped and EV ready parking stalls. Additionally, the Project site is currently served by Orange County Transportation Agency (OCTA) with bus service along Tustin Street via Route 71 and 17th Street via Route 60. There are currently two bus stops located along Route 71 on Tustin Avenue near the proposed Project, with the closest one located just 400 feet northeast of the Project. As stated in Section 4. 14, Population and Housing, the location of 36 new jobs within walking distance of transit would support the Transit Backbone component of Connect SoCal's "Core Vision." As such, the Project would be consistent with Connect SoCal. The Project's construction and operational GHG emissions would be below the SCAQMD's GHG thresholds. In addition, the Project would incorporate the latest energy efficiency standards for buildings, develop alternative fueled charging stations, be supported by mass transit, and support reduced vehicular emissions by providing local employment. Therefore, the Project would not conflict with State and City plans and policies adopted for the purpose of reducing the emissions of GHGs.

## Mitigation Measures

Project implementation would not result in significant impacts related to GHG emissions; therefore, no mitigation measures are required.

# 4.9 HAZARDS AND HAZARDOUS MATERIALS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials? | ☐ | ☐ | ☒ | ☐ |
| b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment? | ☐ | ☒ | ☐ | ☐ |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? | ☐ | ☐ | ☒ | ☐ |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment? | ☐ | ☐ | ☐ | ☒ |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area? | ☐ | ☐ | ☐ | ☒ |
| f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ☒ | ☐ |
| g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires? | ☐ | ☐ | ☐ | ☒ |

## Introduction

A Phase I Environmental Site Assessment (Phase I ESA) was prepared by Hazard Management Consulting (HMC), dated November 4, 2021, and included as Appendix F. A Lead Based Paint Inspection prepared by Allstate Services and dated September 6, 2023 is included as Appendix D to the Phase I ESA. In addition, an Asbestos Survey Report was prepared by HMC, dated September 25, 2023 and included as Appendix G.

## Impact Analysis

***Would the Project:***

***a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?***

**Less than Significant Impact.** Demolition and construction activities for the proposed Project would involve the use of chemical substances such as solvents, paints, fuel for equipment, and other potentially hazardous materials. Hazards to the environment or the

public would typically occur with the transport, use, storage, or disposal of hazardous materials. Demolition and construction activities would be relatively short-term and the transport, use, and disposal of hazardous materials as part of these activities would utilize small quantities and be temporary. The contractor would be required to comply with existing regulations for the transport, use, storage and disposal of hazardous materials to prevent public safety hazards. These regulations include the Hazardous Materials Transportation Act, Resource Conservation and Recovery Act, California Hazardous Waste Control Act, and California Accidental Release Prevention Program, among others.

Once constructed, the proposed McDonald's would potentially utilize typical hazardous materials such as paint, pesticides, cleansers, and solvents for routine maintenance activities, and any use would be in limited quantities typical for commercial/restaurant. The McDonald's would not utilize, store, or generate hazardous materials or wastes in quantities that would pose a significant hazard to the public. Impacts would be less than significant, and no mitigation is required.

***b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?***

**Less than Significant with Mitigation Incorporated.** Review of historical aerial photographs from 1938 to 2021 indicate the site was used as agricultural land from 1938 to 1963, and from 1963 to 2021, the land was primarily utilized as residential with trees on-site. The first visible structures were seen on-site after 1966 (HMC 2023a).

The objective of a Phase I ESA is to identify the presence of Recognized Environmental Conditions, defined by the American Society for Testing and Materials as: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions which pose a material threat of future release to the environment. Given that the Project site was previously used for agricultural purposes from at least 1938 to 1963, it is likely that herbicides and pesticides were used. It is known that DDT was routinely sprayed on agricultural lands throughout California. However, based on the time lapsed between the site's use for agricultural purposes and subsequent development, the Project site's previous agricultural use was not considered to be a REC. Based on the historical documentation reviewed, no RECs were identified (HMC 2023a). The Lead Based Paint (LBP) Inspection was incorporated into the Phase I ESA and concluded that there was LBP on-site at or above the threshold level of 1.9 mg/cm at the residence associated with 2109 East Santa Clara, within the interior ceramic tile shower and tub enclosures. As such, the Project would incorporate MM HAZ-1, which would require additional samples and testing if further materials (not previously tested) are discovered during demolition activities.

According to the Asbestos Survey, when a material is found to contain asbestos in a concentration of greater than 1 percent, it is defined by the USEPA as an asbestos containing material (ACM). Section 25919 of the California Health and Safety Code defines an asbestos containing construction material (ACCM) as one that contains greater than 0.1 percent

asbestos. The California Occupational Safety and Health Administration (Cal-OSHA) requires that worker/employee notification and training be implemented when a material contains greater than 0.1 percent asbestos in an area where workers/employees perform work. Based on materials collected during the survey, positive ACMs and ACCMs have been identified at the Project site in the existing buildings. As such, the Project would implement MM HAZ-1, which would require that all ACMs and ACCMs be removed from the structures prior to demolition activities and MM HAZ-2, which would require further testing in the event additional materials are discovered during demolition activities. Therefore, the Project would not create a significant hazard to the public involving the release of hazardous materials into the environment with mitigation incorporated. As such, there would be a less than significant impact, and no mitigation is required.

***c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?***

**Less than Significant Impact.** Plumfield Preschool and Kindergarten is a school located approximately 300 feet south of the Project site, which is within a 0.25-mile radius of the Project site. As stated above in Threshold 4.9(a), during construction, a potential exists for the accidental release or spill of hazardous substances such as gasoline, oil, hydraulic fluid, diesel fuel, or other liquids associated with construction equipment operation and maintenance. However, use of these materials would be in limited quantities as is typical during the operation and maintenance of construction equipment and would be conducted in compliance with applicable federal, State, and local regulations. Additionally, the contractor would be required to use standard construction controls and safety procedures, which would avoid and minimize the potential for accidental release or spill of such substances into the environment. Once operational, the Project site would utilize paint, pesticides, cleansers, and solvents for routine maintenance activities and would not generate significant hazardous emissions. The operational activities associated with the McDonald's would be similar to other commercial land uses surrounding the site and would not generate hazardous emissions or handle hazardous or acutely hazardous materials, substances or waste in quantities that may impact students at schools within 0.25 mile of the site. Therefore, the level of risk associated with the accidental release of hazardous substances during construction and operations would be less than significant, and no mitigation is required.

***d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?***

**No Impact**. According to the Phase I ESA, review of the California Department of Toxic Substances Control (DTSC) Hazardous Waste and Substances Site List – Site Cleanup (Cortese List) (DTSC 2023), and review of the State Water Resource Control Board's GeoTracker database (SWRCB 2023), the Project site is not included on a list of hazardous material sites compiled pursuant to California Government Code Section 65962.5 (CalEPA 2023). Therefore, the Project does not have the potential to create a significant hazard to the public or the environment due to presence of an existing hazardous materials site identified on the Cortese List. No impact would occur, and no mitigation is required.

***e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard or excessive noise for people residing or working in the project area?***

**No Impact**. The Project site is not located within two miles of an airport. The nearest airport is the John Wayne Airport, which is located 7.8 miles southwest of the Project site. No impact would occur, and no mitigation is required.

***f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?***

**Less than Significant Impact.** The City of Santa Ana Hazard Mitigation Plan was prepared in response to the Disaster Mitigation Act of 2000 and aims to develop mitigation goals and objectives, address hazardous risks, and prepare implementation strategies (City of Santa Ana 2022a). Additionally, the City has a Community Emergency Response Team Program which educates residents abut disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire suppression, light search and rescue, and disaster medical operations (City of Santa Ana 2023a).

During construction activities, all construction staging areas would occur on-site and would be prohibited to occur on the street or within the public right-of-way. A minimum 40- by 16-foot-wide staging area would be available for the entire duration of construction. The Project would likely close lanes and temporarily alter traffic patterns along Santa Clara Avenue during construction. However, the Project would not completely close Santa Clara Avenue at any point. The Project would comply with all conditions set forth in the required Project specific Traffic Control Plan (TCP), which would be reviewed and approved by the City prior to initiation of construction activities. Therefore, with implementation of the required TCP, the temporary closure of a few lanes along Santa Clara Avenue would not result in a significant interference of emergency evacuation routes.

In the event an emergency evacuation route was needed, the Project could utilize nearby potential evacuation routes including residential streets (major arterials and divided collector arterials) which connect to the regional freeways/highways such as SR-55 located to the east and SR-22 located to the north. Major arterials are streets with six travel lanes and a center median, and nearby include Tustin Avenue and 17$^{th}$ Street. Divided collector arterials are streets with two travel lanes and a continuous center two-way left turn lane but may be divided by a raised median to accommodate bike lanes, and include nearby Fairhaven Avenue and Santa Clara Avenue (Urban Crossroads 2023).

In the long-term, the Project would continue to provide access from two driveways, located along East Santa Clara Avenue and on North Tustin Avenue. These driveways would comply with the Orange County Fire Authority (OCFA) and City requirements including adequate fire vehicle access and would be utilized for emergency evacuation of the site. Operationally, the Project would not affect emergency response or emergency evacuation of adjacent land uses. Therefore, the Project would have less than significant impacts regarding interference with emergency response or evacuation plans during construction and operation, and no mitigation is required.

***g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?***

**No Impact.** The Project site is located in a highly urbanized area of the City, and there are no large, undeveloped areas and/or steep slopes on or near the site that may pose wildfire hazards. The site and the surrounding areas are not located in designated Very High Fire Hazard Severity Zones (VHFHSZ), as identified by the California Department of Forestry and Fire Prevention (CAL FIRE 2023). Rather, the site is within a non-VHFHSZ area. The Project would also be required to adhere to construction provisions as provided in the Municipal Code, the CBC and California Fire Code. Implementation of the Project would not expose people or structures directly or indirectly to a significant risk of loss or death associated wildland fires. No impact would occur, and no mitigation is required.

## Mitigation Measures

The following MMs are applicable to the proposed Project and incorporated herein as standard conditions of approval.

**MM HAZ-1** If additional materials are discovered during demolition activities and a laboratory analysis of the samples was not performed, sample shall be collected and analyzed prior to removal or disturbance of the materials.

**MM HAZ-2** Prior to commencement of demolition, all asbestos containing materials (ACMs) and asbestos containing construction materials (ACCMs) shall be removed from the structures at the Project site by a licensed abatement contractor registered in the State of California and certified to perform asbestos-related activities pursuant to the recommendations provided by the Asbestos Survey Report prepared by Hazard Management Consulting and dated September 23, 2023.

# 4.10 HYDROLOGY AND WATER QUALITY

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality? | ☐ | ☐ | ☒ | ☐ |
| b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project impede sustainable groundwater management of the basin? | ☐ | ☐ | ☐ | ☒ |
| c) Substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:<br>i) result in substantial erosion or siltation on- or off-site;<br>ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;<br>iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or<br>iv) impede or redirect flood flows? | ☐ | ☐ | ☒ | ☐ |
| d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | ☐ | ☐ | ☐ | ☒ |
| e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | ☐ | ☐ | ☒ | ☐ |

## Introduction

An Onsite Hydrology and Hydraulics Report (Hydrology Report) and a Water Quality Management Plan were prepared by Kimley-Horn and Associates, Inc. in August 2023 for the Project. The reports are included as Appendix H and Appendix I, respectively.

### *Existing Setting*

The Project site is within the Newport Bay Watershed. The existing runoff flows from the northwest and northeast corner of the property and sheet flows south. With no existing stormdrain system, the stormwater runoff sheet flows south from the existing driveway approaches onto the existing curb and gutter on East Santa Clara Avenue. From East Santa Clara Avenue, the stormwater runoff flows east to the curb inlet on the intersection of East Santa Clara Avenue and Tustin Avenue and through the public storm drain system to Peter's Canyon Wash and ultimately discharges to the Newport Bay. The existing drive aisle east of the proposed development will be unchanged and continue to drain south onto East Santa Clara Avenue. The existing watersheds will be preserved.

## Impact Analysis

***Would the Project:***

***a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?***

**Less than Significant Impact.** Implementation of the Project would involve demolition of the existing residential buildings, detached garages, and associated site improvements, in addition to construction of the proposed McDonald's and site improvements. Therefore, the Project has the potential to result in short-term construction impacts to surface water quality from demolition, grading, and construction-related activities. Stormwater runoff from the construction site would contain loose soils, organic matter, and sediments. Spills or leaks from heavy equipment and machinery, such as fuel, oil, and grease, and heavy metals, could also enter the runoff. Building construction would involve the use of hazardous materials (e.g., paints, solvents, cleansers) that, if not properly handled, may enter the stormwater runoff.

The Clean Water Act establishes a framework for regulating potential water quality impacts from construction activities, as well as new development and major redevelopment, through the NPDES program. Construction activities that disturb one acre or more of land are required to obtain an NPDES permit or coverage under the NPDES Construction General Permit. As the Project would disturb less than one acre, coverage under the Construction General Permit is not required. However, the Project would still continue to implement BMPs during construction, as outlined in the Project-specific WQMP, to reduce stormwater pollutants to the maximum extent practicable.

Stormwater pollutants generated by the Project in the long-term would include sediment, trash and debris, oil and grease, bacterial indicators, nutrients, and pesticides from landscaped areas, drive aisles, and parking areas. In accordance with the NPDES program, a WQMP has been prepared for the Project in compliance with the requirements of the County of Orange NPDES Stormwater Program. The WQMP is subject to City review and approval prior to construction and operation of the Project. The WQMP includes low impact development (in the form of proprietary vegetated biotreatment systems), non-structural BMPs and source control BMPs. Additionally, the use of hazardous materials (e.g., cleaning solvents, pesticides, fertilizers, paint, oil, and grease) would be in limited quantities and in accordance with existing regulations, as discussed in Section 4.9, Hazards and Hazardous Materials. Therefore, with implementation of these features and BMPs, the Project would not result in significant soil, surface water, or groundwater contamination. Therefore, the Project would not violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality during construction or operations. Impacts would be less than significant, and no mitigation is required.

***b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project impede sustainable groundwater management of the basin?***

**No Impact.** Based on the Geotechnical Report, groundwater was encountered at a depth of approximately 21.5 feet below grade, and historical high groundwater is anticipated to be 30 feet below the ground surface (Universal Engineering Sciences 2021). The Project would increase the amount of impervious area from existing conditions, and infiltration was deemed infeasible for BMPs or Low Impact Development (LID) features. Water services are currently provided to the Project site by the City of Santa Ana Public Works Agency Water Resources Division, and as the Project would not involve direct or indirect withdrawals of groundwater, it would not deplete groundwater supplies or interfere substantially with groundwater recharge. As such, no impact would occur related to groundwater recharge, and no mitigation is required.

***c) Substantially alter the existing drainage pattern of the site or area, including the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:***

***i) result in substantial erosion or siltation on- or off-site;***

**Less than Significant Impact.** As indicated in Response 4.10a, the Project would be required to comply with all BMPs as outlined in the WQMP, which was prepared in compliance with the NPDES program. Compliance with the WQMP would provide erosion control, sediment control, tracking, waste management, and construction site maintenance BMPs to reduce the potential for soil and wind erosion during construction activities. With compliance with the required WQMP and BMPs, construction-related erosion would be less than significant, and no mitigation is required.

As stated above, during existing conditions, stormwater runoff from the existing building, driveways, and parking surface flow from the northeast and northwest corners of the site, south towards the E. Santa Clara Avenue. All stormwater runoff is currently contained within the property limits because of the existing surrounding wall. There is no storm drain system, and all drainage currently sheet flows off site and to the public street along East Santa Clara Avenue.

In the proposed condition, a series of curb and gutter and valley gutters would be installed along the northern, eastern, and southern ends of the site to capture and convey stormwater runoff during low flow storm events. Given the poor infiltration rates on site and the decrease in pervious area from existing conditions, the Project would install on-site catch basins and a detention basin to ensure that the post-development runoff would be less or equal to the pre-development runoff volume. The stormwater runoff would be diverted toward one of three new on-site catch basins. Stormwater would then be conveyed to an underground detention system sized to retain the design capture storm. Stormwater would be pumped from the proposed underground retention tank to the existing curb and gutter on Santa Clara Avenue. Although the drainage pattern would be altered, the surface runoff

flow during proposed conditions would be less than or equal to existing conditions, and would not result in additional erosion or siltation.

Additionally, during large storm events (25 & 100-year storm) stormwater runoff would enter the proposed underground retention system and be pumped out and into the curb and gutter off East Santa Clara Avenue, and flow east to the curb inlet on the intersection of East Santa Clara Avenue and Tustin Avenue to the public stormwater system. In storm events larger than the 100-year storm, storm flows would overflow from the detention basin into a proposed curb cut leading to a landscaped area, and eventually into the public valley gutter along East Santa Clara Avenue. Proposed stormdrain pipes have been sized to accommodate flows from a 100-year storm event. The proposed Project's stormwater capture and detainment system would prevent runoff from substantial erosion or siltation on or off site. As such, the Project would not result in substantial erosion or siltation during operations. Operation-related erosion would be less than significant, and no mitigation is required.

***ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;***

***iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or***

**Less than Significant Impact.** As stated above, given the poor infiltration rates on site and the decrease in pervious area from existing conditions, the Project would implement catch basins and a detention basin to ensure that the post-development runoff would be less or equal to the pre-development runoff volume. Under proposed conditions during low flow events, stormwater would flow toward existing gutters located along the Project site's perimeters to capture runoff, then would be conveyed to one of three on-site catch basins. Stormwater would be collected in an underground detention system sized to retain stormwater and then pumped to the existing curb and gutter on East Santa Clara Avenue. For larger storm events, stormwater would enter the detention system and be pumped out onto the curb and gutter off East Santa Clara Avenue. The Project has been designed to keep flow rates for the proposed Project from exceeding existing condition peak flows, and preventing the stormwater from discharging directly to the on-site storm drain system for 25- and 100-year storm events. This would prevent the Project conditions from resulting in flooding on-site, as the proposed system would adequately manage the stormwater runoff. According to the Hydrology Report, the 50-year storm event required detention volume for a 0.82-acre drainage area is 1,638 cubic feet (CF). The proposed detention basin would provide capacity for 3,845 CF, which would ensure the Project would not contribute to runoff which would exceed capacity of stormwater drainage systems. As such, the proposed changes resulting from the Project site would not substantially increase the rate or amount of surface runoff in a manner, which would result in flooding on- or offsite or exceed capacity of existing or planned stormwater drainage systems. Impacts would be less than significant, and no mitigation is required.

***iv) impede or redirect flood flows?***

**Less than Significant Impact.** The Federal Emergency Management Agency (FEMA) has prepared flood insurance rate maps for use in administering the National Flood Insurance Program. According to the FEMA flood map, the site is outside the 0.2% annual chance (500-year) floodplain (Universal Engineering Sciences 2021). As stated above, stormwater runoff would be conveyed to catch basins and an underground detention system sized to retain stormwater for storm events, then pumped out onto the curb and gutter off East Santa Clara Avenue. This would reduce the potential for flooding to occur as a result of the Project. Additionally, the Project would implement all recommendations contained in the WQMP, including temporary and permanent erosion control BMPs. Thus, the Project would not result in erosion or siltation that would alter the drainage pattern of the area, impede, or redirect flood flows. Project impacts would be less than significant, and no mitigation is required.

***d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?***

**No Impact.** As previously stated, the Project is outside the 0.2% annual chance (500-year) floodplain and would not result in a flood hazard. Tsunamis are waves generated by massive landslides near or under sea water. The site is not located on any State of California – County of Orange Tsunami Inundation Map for Emergency Planning. The potential for the site to be adversely impacted by earthquake-induced tsunamis is considered to be negligible because the site is located approximately 12 miles inland from the Pacific Ocean shore, at an elevation exceeding the maximum height of potential tsunami inundation. Seiches are standing wave oscillations of an enclosed water body after the original driving force has dissipated. The potential for the site to be adversely impacted by earthquake-induced seiches is considered to be low due to the lack of any significant enclosed bodies of water located in the vicinity of the site (Universal Engineering Sciences 2021). There are no hillside areas on site or in the surrounding area that could generate mudflow. As a result, no impacts related to seiche, tsunami, or mudflow would occur, and no mitigation is required.

***e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?***

**Less than Significant Impact.** The Project Site is not located within an Orange County Water District (OCWD) designated groundwater recharge facility. The Project would not conflict or obstruct the County's NPDES program, Urban Water Management Plan (UWMP), or Orange County Stormwater Resource Plan. The Proposed Project would include an on-site capture and detention system and would not significantly alter drainage patterns on-site. The Project would additionally comply with the WQMP, which includes BMPs that are a part of the proposed Project design and work to ensure the reduction of pollutants from construction and operation activities entering surface waters. Therefore, potential impacts associated with the conflict or obstruction of implementing a water quality control plan or sustainable groundwater management plan would be less than significant, and no mitigation would be required.

## Mitigation Measures

Project implementation would not result in significant impacts related to hydrology and water quality; therefore, no mitigation measures are required.

# 4.11 LAND USE AND PLANNING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Physically divide an established community? | | ☐ | ☒ | ☐ |
| b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Physically divide an established community?***

**Less Than Significant Impact.** One of the primary factors in considering division of an established community is whether the project would create any physical barriers that change the connectivity between areas of a community. As stated in Section 2.0, Project Description, the Project site is located within a highly urbanized portion of the City of Santa Ana, which primarily includes a mix of commercial/retail and low-density residential uses. The Project site is bound by East Santa Clara Avenue to the south; the California Highway Patrol Office to the west; commercial businesses (Stater Brothers and Pizza Hut) to the north; and a commercial business (Del Taco) and North Tustin Avenue to the east. Other dominant land uses within the Project vicinity include multi-family apartments located north and south of the site; the Santa Ana Cemetery located to the west; commercial buildings located to the east; and the Plumfield Preschool and Kindergarten located to the south. The Project would replace two existing residential units which are both currently vacant, with a McDonald's building and drive-thru. The proposed commercial use would be consistent with surrounding uses which include a variety of commercial uses, and would not create any physical barriers or connectivity issues. The two residences are isolated from, and not part of, a larger residential community, and are currently unoccupied. Therefore, the Project would not divide or disrupt the physical arrangement of the existing adjacent residential neighborhoods. Impacts would be less than significant, and no mitigation is required.

***b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?***

**Less than Significant Impact.** The Project would construct a McDonald's development within the City of Santa Ana. Local plans and programs relevant to the Project and the consistency of the proposed Project with these plans and programs are discussed below.

## *SCAG RTP/SCS*

With respect to regional planning, SCAG is the metropolitan planning organization (MPO) for Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial counties. As the designated MPO, the federal government mandates SCAG to prepare plans for growth management, transportation, air quality, and hazardous waste management. In addition, SCAG reviews projects of regional significance for consistency with the existing regional plans. SCAG's regional planning programs, including the Regional Comprehensive Plan (RCP), Regional Housing Needs Assessment, and RTP/SCS, are not directly applicable to the proposed Project because the Project is not of Statewide, regional or area-wide significance, as defined by Section 15206 of the CEQA Guidelines. As such, the Project would not conflict with the RTP/SCS.

## *City of Santa Ana General Plan – Land Use Element*

The purpose of the Land Use Element is to provide a long-range guide for the physical development of the city, reflecting the community's vision for a high quality of life. This element guides the distribution, location, and size of new development, ensuring that residential neighborhoods are protected, and that future growth is sustainable and minimizes potential conflicts. Through its focus on the pattern of land use, this element is also a tool to promote public health, reduce infrastructure costs, enhance local economies, and address long-term environmental issues such as air quality, climate change, and water resources (City of Santa Ana 2022e).

An evaluation of the Project's consistency with applicable goals, policies, and actions of the Land Use Element is provided in following Table 15, Proposed Project General Plan Land Use Element Consistency Analysis.

**TABLE 15**
**PROPOSED PROJECT GENERAL PLAN LAND USE ELEMENT**
**CONSISTENCY ANALYSIS**

| General Plan Goal | | Consistency Analysis |
|---|---|---|
| **Goal 2 - Land Use Needs** | | |
| **Policy LU 2.1** | EMPLOYMENT OPPORTUNITIES: Provide a broad spectrum of land uses and development that offer employment opportunities for current and future Santa Ana residents. | **Consistent**. The Project would provide a McDonald's, which would include employment opportunities for current and future residents of the City. As stated in Section 4.14, Population and Housing, the Project would provide employment for approximately 36 employees. In addition, the Project would provide temporary employment opportunities during construction activities. Therefore, the Project would be consistent with this policy. |
| **Policy LU 2.2** | CAPTURE LOCAL SPENDING: Encourage a range of commercial uses to capture a greater share of local spending, and offer a range of employment opportunities. | **Consistent.** The Project would provide a commercial use within an area primarily characterized by other commercial/retail and low-density residential uses. As stated above, the Project would provide temporary employment opportunities during construction and permanent employment opportunities for approximately 36 employees during operations. Therefore, the Project would be consistent with this Policy. |
| **Goal 3 – Compatibility of Uses** | | |
| **Policy LU 3.4** | COMPATIBLE DEVELOPMENT: Ensure that the scale and massing of new development is compatible and harmonious with the surrounding built environment. | **Consistent**. As stated in Section 4.1, Aesthetics, the Project would develop a single story McDonald's building with a maximum height of 23 feet to the top of the parapet. In designing the proposed development, consideration was given to scale, massing, and architecture of the Project to ensure that it complements the existing buildings within the surrounding development. The Project would primarily incorporate neutral tones along the outer facades, which would involve materials such as plaster/stucco, aluminum and metals, as shown on Exhibit 6. In addition, the Project is located within an area characterized partially by retail and commercial uses. Therefore, the Project would be consistent with this Policy. |

**TABLE 15**
**PROPOSED PROJECT GENERAL PLAN LAND USE ELEMENT**
**CONSISTENCY ANALYSIS**

| General Plan Goal | | Consistency Analysis |
|---|---|---|
| Policy LU 3.7 | ATTRACTIVE ENVIRONMENT: Promote a clean, safe, and creative environment for Santa Ana's residents, workers, and visitors. | **Consistent**. The Project would replace two existing residences, both of which are currently vacant, with a new McDonald's building. The Project would include aesthetically pleasing features, such as landscaping with a variety of plant materials including trees, shrubs, vines, grasses, and groundcover. Landscaped planter areas would be constructed along the northern, western, and southern site perimeter and would provide decorative screening and a buffer between the proposed uses and the adjacent uses, in addition to being placed centrally within the proposed surface parking lot and adjacent to the proposed drive-thru. Additionally, the Project would improve the existing driveway located on North Tustin Avenue with enhanced decorative paving. Dumpsters would be provided in a secure covered area and would be screened from view. Therefore, the Project would be consistent with this Policy. |
| **Goal 4 – Complete Communities** | | |
| Policy LU 4.2 | PUBLIC REALM: Maintain and improve the public realm through quality architecture, street trees, landscaping, and other pedestrian-friendly amenities. | **Consistent**. As discussed above, the Project would provide neutral tones among the outer facades and involve materials such as plaster/stucco, aluminum, and metals. Architectural design was considered to ensure Project complements the existing buildings within the surrounding development. Additionally, the Project would provide landscaping features, and would construct a sidewalk fronting East Santa Clara Avenue to a ensure pedestrian-friendly environment. Therefore, the Project would be consistent with this Policy. |
| Policy LU 4.3 | SUSTAINABLE LAND USE STRATEGIES: Encourage land uses and strategies that reduce energy and water consumption, waste and noise generation, soil contamination, air quality impacts, and light pollution. | **Consistent**. The Project would incorporate indoor water conservation measures such as low-flow fixtures for handwashing sinks, toilet and urinal flush valves and dish sprayers. Beverage and ice machines would include low water waste technology and the proposed reverse osmosis (RO) filtration system is highly efficient and would limit the amount of bypass water. Additionally, all Project lighting would be subject to the City of Santa Ana Design Guidelines, which outlines lighting standards for commercial projects and includes direction on minimizing glare onto adjoining properties. All on-site lighting would be shielded and directed so that no lighting trespasses onto the adjacent properties. Overall, Project impacts related to energy and water consumption, waste and noise generation, soil contamination, air quality impacts, and light pollution, as analyzed in this IS/MND, would be less than significant. Therefore, the Project would be consistent with this Policy. |

**TABLE 15**
**PROPOSED PROJECT GENERAL PLAN LAND USE ELEMENT**
**CONSISTENCY ANALYSIS**

| General Plan Goal | | Consistency Analysis |
|---|---|---|
| Policy LU 4.5 | VMT REDUCTION: Concentrate development along high-quality transit corridors to reduce vehicle miles traveled (VMT) and transportation-related carbon emissions. | **Consistent**. The Project is located on the northern side along East Santa Clara Avenue, which is classified as a Divided Collector Arterial, and just west of North Tustin Avenue, which is classified as a Major Arterial. As such, the located of the proposed Project is within a high-quality transit corridor and surrounded by other commercial and retail uses. As discussed further in Section 4.17, Transportation, the Project would be screened out of a VMT Analysis. Therefore, the Project would be consistent with this Policy. |
| Source: City of Santa Ana 2022e. | | |

As demonstrated in Table 15, the Project would be consistent with the applicable Land Use Element policies, and no conflict would occur.

## *Santa Ana Municipal Code*

The City of Santa Ana Municipal Code is a collection of ordinances adopted by the City Council that serves as the law of the City, including development standards (i.e., setbacks, building height, site coverage, parking, and sign requirements) and zoning, that identifies the corresponding permitted, conditionally permitted, and prohibited land uses.

The Project site is currently zoned A1 (General Agricultural), and the Project includes an Amendment Application (i.e., Zone Change) to change the zoning classification to C5 (Arterial Commercial) to allow for the proposed commercial uses. In addition, the Project would request a CUP, required to allow a drive-thru eating establishment and a second CUP to allow for after-hours operations between 12 AM to 5 AM located within 150 feet of residential property. The Project would be required to meet all development standards and would apply for ministerial permits through the City, including a demolition permit, landscape permit, grading permit, building permits and occupancy permits. With approval of the Zone Change and CUP, the proposed Project would be consistent with the Santa Ana Municipal Code. As such, the Project would not conflict with the Municipal Code.

Therefore, the Project would not cause a significant environmental impact, as the Project would not conflict with any applicable land use plan, policy, or regulation. Impacts would be less than significant, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to land use and planning; therefore, no mitigation measures are required.

# 4.12 MINERAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state? | ☐ | ☐ | ☐ | ☒ |
| b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? | ☐ | ☐ | ☐ | ☒ |

## Impact Analysis

***Would the Project:***

***a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?***

***b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?***

**No Impact.** The California Geological Survey designates Mineral Resources Zones (MRZs) according to the presence of or potential for underlying mineral resources. MRZ-1 is an area with no significant mineral deposits; MRZ-2 is an area with significant mineral deposits; and MRZ-3 is an area containing known mineral resources of undetermined significance. The Project site is designated by the Division of Mines and Geology as MRZ-3 (DMG 1994). As stated in the Orange County General Plan Resources Element, in the Orange County Region, mineral resource areas are primarily located in portions of the Santa Ana River, Santiago Creek, San Juan Creek, and Arroyo Trabuco, none of which include the Project site (Orange County 2012). The Project site is developed with residential buildings, and there are no mining activities or mineral extraction uses near the Project site. Thus, the Project would not result in the loss of availability of locally-important mineral resources. No impacts would occur, and no mitigation is required.

There are no past or ongoing oil or gas drilling activities on or near the site. Review of the California Geologic Energy Management Division's (CalGEM) Well Finder shows no oil or gas wells are located on the Project site or in the vicinity of the site (CalGEM 2023). Therefore, redevelopment of the site would not result in the loss of availability of regional mineral resources. No impacts would occur, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to mineral resources; therefore, no mitigation is required.

# 4.13 NOISE

| Would the project result in: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | ☐ | ☐ | ☒ | ☐ |
| b) Generation of excessive groundborne vibration or groundborne noise levels? | ☐ | ☐ | ☒ | ☐ |
| c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels? | ☐ | ☐ | ☐ | ☒ |

## Introduction

An analysis of potential noise and vibration impacts associated with the proposed Project was prepared and is presented summarized below, and the Noise Calculations are included as Appendix J to this IS/MND.

### *Noise and Vibration Concepts*

Noise

"Sound" is a vibratory disturbance created by a moving or vibrating source and is capable of being detected. "Noise" is defined as sound that is loud, unpleasant, unexpected, or undesired and may therefore be classified as a more specific group of sounds. The effects of noise on people can include general annoyance; interference with speech communication; sleep disturbance; and, in the extreme, hearing impairment (Caltrans 2013a).

Sound pressure levels are described in units called the decibel (dB). Decibels are measured on a logarithmic scale. A doubling of the energy of a noise source (such as doubling of traffic volume) would increase the noise level by 3 dB. The human ear is not equally sensitive to all frequencies within the sound spectrum. To accommodate this phenomenon, the A-scale was devised; the A-weighted decibel scale (dBA) approximates the frequency response of the average healthy ear when listening to most ordinary everyday sounds and is used in this analysis.

Human perception of noise has no simple correlation with acoustical energy. Due to subjective thresholds of tolerance, the annoyance of a given noise source is perceived very differently from person to person. The most common sounds vary between 40 dBA (very quiet) to 100 dBA (very loud). Normal conversation at 3 feet is approximately 60 dBA, while

loud jet engine noises at 1,000 feet equate to 100 dBA, which can cause serious discomfort. Table 16 shows the relationship of various noise levels in dBA to commonly experienced noise events.

**TABLE 16**
**NOISE LEVELS FOR COMMON EVENTS**

| Common Outdoor Activities | Noise Level (dBA) | Common Indoor Activities |
|---|---|---|
| | 110 | Rock Band |
| Jet fly-over at 300 m (1,000 ft) | 100 | |
| Gas lawn mower at 1 m (3 ft) | 90 | |
| Diesel truck at 15 m (50 ft) at 80 km/hr (50 mph) | 80 | Food blender at 1 m (3 ft); garbage disposal at 1 m (3 ft) |
| Noisy urban area, daytime gas lawn mower at 30 m (100 ft) | 70 | Vacuum cleaner at 3 m (10 ft) |
| Commercial area, heavy traffic at 90 m (300 ft) | 60 | Normal speech at 1 m (3 ft) |
| Quiet urban daytime | 50 | Large business office, dishwasher in next room |
| Quiet urban nighttime | 40 | Theater, large conference room (background) |
| Quiet suburban nighttime | 30 | Library |
| Quiet rural nighttime | 20 | Bedroom at night, concert hall (background) |
| | 10 | Broadcast/recording studio |
| Lowest threshold of human hearing | 0 | Lowest threshold of human hearing |

dBA: A-weighted decibels; m: meter; ft: feet; km/hr: kilometers per hour.
Source: Caltrans 2013a.

Two noise sources do not "sound twice as loud" as one source. As stated above, a doubling of noise sources results in a noise level increase of 3 dBA. It is widely accepted that (1) the average healthy ear can barely perceive changes of a 3 dBA increase or decrease, (2) a change of 5 dBA is readily perceptible, and (3) an increase (decrease) of 10 dBA sounds twice (half) as loud (Caltrans 2013a).

From the source to the receiver, noise changes both in the level and frequency spectrum. The most obvious change is the decrease in noise level as the distance from the source increases. Sound from a small, localized source (approximating a "point" source) radiates uniformly outward as it travels away from the source in a spherical pattern. For point sources, such as HVAC units or construction equipment, the sound level attenuates (or drops off) at a rate of 6 dBA for each doubling of distance (i.e., if the noise level is 70 dBA at 25 feet, it is 64 dBA at 50 feet). Vehicle movement on a road makes the source of the sound appear to emanate from a line (line source) rather than a point when viewed over some time interval. The sound level attenuates or drops off at a rate of 3 dBA per doubling of distance for line sources.

A large object in the path between a noise source and a receiver can significantly attenuate noise levels at that receiver location. The amount of attenuation provided by this "shielding" depends on the size of the object and the frequencies of the noise levels. Natural terrain or landform features as well as man-made features (e.g., buildings and walls) can significantly alter noise exposure levels. For a noise barrier to work, it must be high enough and long enough to block the view from the receiver to a road or other noise source. Effective noise barriers can reduce outdoor noise levels at the receptor by up to 15 dBA.

Several rating scales (or noise "metrics") exist to analyze effects of noise on a community. These scales include the equivalent noise level ($L_{eq}$), including $L_{max}$ and $L_{min}$, which are respectively the highest and lowest A-weighted sound levels that occur ding a noise event, and the Community Noise Equivalent Level (CNEL). Average noise levels over a period of minutes or hours are usually expressed as dBA $L_{eq}$, which is the equivalent noise level for that period of time. The period of time averaging may be specified; for example, $L_{eq(3)}$ would be a three-hour average. Noise of short duration (i.e., substantially less than the averaging period) is averaged into ambient noise during the period of interest. Thus, a loud noise lasting many seconds or a few minutes may have minimal effect on the measured sound level averaged over a one-hour period.

To evaluate community noise impacts, CNEL was developed to account for human sensitivity to nighttime noise. CNEL represents the 24-hour average sound level with a penalty for noise occurring at night. The CNEL computation divides a 24-hour day into three periods: daytime (7:00 AM to 7:00 PM), evening (7:00 PM to 10:00 PM), and nighttime (10:00 PM to 7:00 AM). The evening sound levels are assigned a 5-dBA penalty, and the nighttime sound levels are assigned a 10-dBA penalty prior to averaging with daytime hourly sound levels.

<u>Vibration</u>

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration is normally associated with activities such as railroads or vibration-intensive stationary sources but can also be associated with construction equipment such as jackhammers, pile drivers, and hydraulic hammers. Vibration displacement is the distance that a point on a surface moves away from its original static position. The instantaneous speed that a point on a surface moves is described as the velocity, and the rate of change of the speed is described as the acceleration. Each of these descriptors can be used to correlate vibration to human response, building damage, and acceptable equipment vibration levels. During construction of a project, the operation of construction equipment can cause ground borne vibration. During the operational phase of a project, receptors may be subject to levels of vibration that can cause annoyance due to noise generated from vibration of a structure or items within a structure. Analysis of this type of vibration is best measured in velocity and acceleration.

The three main wave types of concern in the propagation of ground borne vibrations are surface or Rayleigh waves, compression or P-waves, and shear or S-waves.

- Surface or Rayleigh waves travel along the ground surface. They carry most of their energy along an expanding cylindrical wave front, similar to the ripples produced by

throwing a rock into a lake. The particle motion is more or less perpendicular to the direction of propagation (known as retrograde elliptical).

- Compression or P-waves are body waves that carry their energy along an expanding spherical wave front. The particle motion in these waves is longitudinal, in a push-pull motion. P-waves are analogous to airborne sound waves.
- Shear or S-waves are also body waves, carrying their energy along an expanding spherical wave front. Unlike P-waves, however, the particle motion is transverse, or perpendicular to the direction of propagation.

The peak particle velocity (ppv) or the root mean square (rms) velocity is usually used to describe vibration amplitudes. The ppv is defined as the maximum instantaneous peak of the vibration signal and the rms is defined as the square root of the average of the squared amplitude of the signal. The ppv is more appropriate for evaluating potential building damage and also used for evaluating human response.

The units for ppv velocity are normally inches per second (in/sec). Often, vibration is presented and discussed in dB units in order to compress the range of numbers required to describe the vibration. In this study, all ppv velocity levels are in in/sec and all vibration levels are in dB relative to one microinch per second.

The threshold of perception is approximately 0.3 ppv in/sec. Typically, groundborne vibration generated by human activities attenuates rapidly with distance from the source of the vibration. Even the more persistent Rayleigh waves decrease relatively quickly as they move away from the source of the vibration. Manmade vibration problems are, therefore, usually confined to short distances (500 feet or less) from the source.

Construction generally includes a wide range of activities that can generate groundborne vibration. In general, blasting and demolition of structures and pile driving generate the highest vibrations. Heavy trucks can also generate groundborne vibrations, which vary depending on vehicle type, weight, and pavement conditions. Potholes, pavement joints, discontinuities, differential settlement of pavement, and other anomalies all increase the vibration levels from vehicles passing over a road surface. Construction vibration is normally of greater concern than vibration of normal traffic on streets and freeways with smooth pavement conditions. Trains generate substantial quantities of vibration due to their engines, steel wheels, and heavy loads.

## *Existing Setting*

The existing noise environment in the Project area is primarily influenced by traffic noise on nearby roads. The roadways contributing the most noise to the Project site are East Santa Clara Avenue and North Tustin Avenue. For the purpose of this noise analysis, the study area includes the Project site, the areas immediately adjacent to the Project site, and the land uses adjacent to the roadway segments where the Project adds vehicular trips to the roadway system. Traffic noise exposure at the Project site was documented in the City's General Plan Update Updated Draft Program Environmental Impact Report (PEIR) (Santa Ana 2021d). Based on existing average daily trips along Santa Clara Avenue between Grand Avenue to

Tustin Avenue, noise levels are estimated at 67.8 dBA CNEL at 50 feet from the centerline of Santa Clara Avenue.

Sensitive Receptors

The State of California defines noise-sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions (State of California 2015). The land use categories requiring the lowest noise thresholds are schools, libraries, churches, hospitals, and residences. Schools, libraries, churches, hospitals, and residences proximate to the Project site are referred to as the Project's "noise sensitive receptors" due to sensitivity of these uses to noise exposure.

The buildings and structures that immediately surround the Project site are retail uses to the north and east of the Project site and residential uses to the west and south of the site. The closest noise-sensitive receptors to the Project site include residences located approximately 80 feet to the south of the Project site at E. Santa Clara Avenue.

## *Regulatory Setting*

Public agencies have established noise guidelines and standards to protect citizens from potential hearing damage and various other adverse physiological and social effects associated with noise.

State of California

Title 24 of the *California Code of Regulations*, also known as the CBC, establishes building standards applicable to all occupancies throughout the State. The most recent building standards adopted by the legislature and used throughout the State is the 2019 version. The State of California codifies noise insulation standards in the CBC. Section 1206.4, Allowable interior noise levels, states "Interior noise levels attributable to exterior sources shall not exceed 45 dB in any habitable room. The noise metric shall be either the day-night average sound level ($L_{dn}$) or the CNEL, consistent with the noise element of the local general plan." (DGS 2021). These noise standards are for new construction in California for the purposes of interior compatibility with exterior noise sources. The regulations specify that acoustical studies must be prepared for new buildings with habitable rooms that are near major transportation noises, and where such noise sources create an exterior noise level of 60 dBA CNEL/$L_{dn}$ or higher.

City of Santa Ana

The City of Santa Ana has established guidelines and standards in the General Plan (City of Santa Ana 2022g) and the Santa Ana Municipal Code.

*City of Santa Ana General Plan*

"The purpose of the Noise Element is to appraise noise levels in the community, prepare noise contours to guide land use decisions, and establish measures that address current and

future noise impacts." (Santa Ana 2022g). The City's primary focus is to minimize noise problems in areas sensitive to noise because most of the land in Santa Ana if fully established. It notes that residential uses should be protected with sound insulation over and above what is provided by normal building construction when they are constructed in areas with noise levels higher than 65 db CNEL (community noise equivalent level) (City of Santa Ana 2022g).

The General Plan identifies the following Noise Goals:

- N-1: Land Use Compatibility - Ensure that existing and future land uses are compatible with current and projected local and regional noise conditions.
- N-2: Noise Generators – Reduce the impact of known sources of noise and vibration.
- N-3: Airport and Land Use Environs – Protect sensitive land uses from airport related noise impacts.

Table 17, Interior and Exterior Noise Standards displays the standards and guidelines for noise levels adopted by the City for various land uses. These guidelines are used to evaluate the proposed Project's compatibility with the ambient noise level.

**TABLE 17**
**INTERIOR AND EXTERIOR NOISE STANDARDS**

| Categories | Land Use Categories | Interior[1] | Exterior[2] |
|---|---|---|---|
| Residential | Single-family, duplex, multi-family | 45 dB CNEL[3] | 65 dB CNEL |
| Institutional | Hospital, school classroom/playground | 45 dB CNEL | 65 dB CNEL |
| | Religious facility, library | 45 dB CNEL | -- |
| Open Space | Parks | -- | 65 dB CNEL |

dB: decibel; CNEL: Community Noise Equivalent Level.

Notes:
1. Interior areas, to include but not limited to bedrooms, bathrooms, kitchens, living rooms, dining rooms, private offices, and conference rooms.
2. Exterior areas shall mean the following: private yards of single-family homes, park picnic areas, school playgrounds, and common areas. Private open space, such as atriums on balconies, shall be excluded from exterior noise requirements provided sufficient common area is included within the Project.
3. Interior noise level requirements assume a closed-window condition. Mechanical ventilation system or other means of natural ventilation shall be provided per Chapter 12 of the Uniform Building Code, as necessary.

Source: City of Santa Ana 2022g.

*City of Santa Ana Santa Ana Municipal Code*

Chapter 18 Article VI, Noise Control, sets standards related to noise in the City. Below are excerpts of Municipal Codes that are relevant to the Project.

Sec. 18-312. – Exterior noise standards.

(a) The following noise standards, unless otherwise specifically indicated, shall apply to all residential property within a designated noise zone:

**TABLE 18**
**CITY OF SANTA ANA NOISE ORDINANCE STANDARDS**
**FOR RESIDENTIAL PROPERTY***

| Time Period | Noise Level dBA | |
|---|---|---|
| | Exterior | Interior |
| 7:00 a.m. – 10:00 p.m. | 55 | 55 |
| 10:00 p.m. – 7:00 am | 50 | 45 |

dBA: A-weighted decibels

*Applicable to property withing a designated Noise Zone 1. The entire City of Santa Ana is designed as Noise Zone 1 per Sec. 18-311 of the Municipal Code.

(b) It shall be unlawful for any person at any location within the City of Santa Ana to create any noise, or to allow the creation of any noise on property owned, leased, occupied, or otherwise controlled by such person, when the foregoing causes the noise level, when measured on any other residential property, to exceed:

(1) The noise standard for a cumulative period of more than thirty (30) minutes in any hour; or

(2) The noise standard plus five (5) dB(A) for a cumulative period of more than fifteen (15) minutes in any hour; or

(3) The noise standard plus ten (10) dB(A) for a cumulative period of more than five (5) minutes in any hour; or

(4) The noise standard plus fifteen (15) dB(A) for a cumulative period of more than one minute in any hour; or

(5) The noise standard plus twenty (20) dB(A) for any period of time.

Sec. 18-314. –- Special provisions.

The following activities shall be exempted from the provisions of this article:

(e) Noise sources associated with construction, repair, remodeling, or grading or any real property, provided said activities do not take place between the hours of 8:00 p.m. and 7 a.m. on weekdays, including Saturday, or any time on Sunday or federal holiday (City of Santa Ana).

The chapter does not set specific noise level limits on construction-related activity.

## *Impact Analysis*

### *Would the Project:*

***a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?***

The analysis in this section is divided into the following categories: Off-site Noise Generated by Project Traffic, Noise Generated by On-Site Project Sources and Project Construction Noise.

Off-Site Noise Generated by Project Traffic

**Less than Significant Impact.** Project-related off-site noise sources (i.e., roadway traffic noise) have the potential to increase noise levels on local roadways proximate to the Project site. The City of Santa Ana's General Plan Update PEIR determines whether traffic related noise impacts would occur based on whether project-related off-site noise sources (i.e., roadway traffic noise) cause the ambient noise levels measured at the property line of affected noise-sensitive uses to increase by greater than 1.5 dBA increase for ambient noise environments of 65 dBA CNEL and higher (Santa Ana 2021d).

Operation of the proposed Project would increase traffic by 1,860 Average Daily Trips (ADT). Half of these trips (930) are pass-by trips and were not counted because they are not new trips. There would also be 89 morning peak hour trips and 67 evening peak hour trips. Santa Clara Avenue is estimated to have 10,585 ADT. The increase in traffic noise along Santa Clara Avenue from the additional Project related ADT is estimated to be 0.4 dBA CNEL which is less than the 1.5 dBA CNEL threshold adopted by the City. Tustin Avenue between Santa Clara Avenue and Fairhaven Street is estimated to have 35,410 ADT. If all Project traffic travels along Tustin Avenue traffic noise levels are estimated to be 0.1 dBA CNEL which is likewise less than the 1.5 dBA CNEL threshold adopted by the City. As such, the Project would not result in an increase in traffic noise levels and would result in less than significant noise impacts related to traffic noise.

On-Site Project Noise Sources

**Less Than Significant Impact.** Daily operation of the proposed Project has the potential to result in an increased ambient noise level in the vicinity of the proposed Project through the addition of stationary sources of noise as well as vehicular trips associated with the proposed Project. Stationary sources of noise include HVAC equipment, landscape maintenance equipment, parking lot activities, trash collection activities, and restaurant drive-thru speakers.

HVAC units would be used for air conditioning and heating needs for the Project. The Project's stationary sources of noise are required to comply with the noise limits established under Article VI. – Noise Control of the Santa Ana's Municipal Code, as previously discussed.

Section 18-316 – Air and Refrigeration limits noise produced by HVAC units to 8 dBA above the City's exterior and interior noise limits. Compliance with this noise limit would result in less than significant noise exposure impacts from HVAC noise at offsite uses.

A drive-thru aisle and parking area are proposed on the eastern portion of the Project site,. Noise associated with parking lot activities consists of vehicle engines, door slams, engine starts, and people talking. Noise associated with parking lot activities were quantified based on methods recommended by the U.S. Department of Transportation's Transit Noise and Vibration Impact Assessment (FTA 2018). Noise level exposure at the nearest noise sensitive use were calculated based on peak hourly traffic conditions with 135 automobiles per hour. Noise associated with parking lot activities are shown in Table 19 below.

Other noise sources from the proposed Project include a drive-thru window and a menu board with an amplified speaker in addition to nonamplified speech. To assess noise associated with the Project's drive-thru window and menu board, noise levels of 72 dBA were used for the drive-thru window based on a "Raised Speaking" noise level (Lazarus 1986). Noise levels associated with the parking lot, drive-thru window, and menu board are shown below in Table 19. As shown in Table 19, noise associated with the Project's onsite noise generating activities are below the City's noise limits for nearby land uses.

**TABLE 19**
**RESTAURANT NOISE LEVELS AT ADJACENT USES**

| | **Noise Levels at Property Lines ($L_{eq}$ dBA)** | | | |
|---|---|---|---|---|
| | **Residences to the North of the Project Site** | **Commercial to the West of the Project Site** | **Commercial Uses to the South of the Project Site** | **Commercial Uses to the East of the Project Site** |
| **Daytime Noise Levels** | | | | |
| Drive-Thru Window and Menu Board | 19 | 33 | 25 | 16 |
| Parking Lot Activity | 29 | 40 | 45 | 33 |
| **Total Daytime Noise Levels** | **30** | **41** | **45** | **33** |
| **City Noise Limit** | **55** | **55** | **55** | **55** |
| **Exceeds Daytime Noise Limit?** | **No** | **No** | **No** | **No** |
| **Nighttime Noise Levels** | | | | |
| Drive-Thru Window and Menu Board | 19 | 33 | 25 | 16 |
| Parking Lot Activity | 25 | 36 | 41 | 29 |
| **Total Nighttime Noise Levels** | **26** | **38** | **41** | **29** |
| **City Nighttime Noise Limit** | **45** | **45** | **45** | **45** |
| **Exceeds Nighttime Noise Limit?** | **No** | **No** | **No** | **No** |

$L_{eq}$: energy average; dBA: A-weighted decibels.
Calculations within Attachment A of this Report.

Noise associated with trash removal and landscaping activities is regulated under Section 18-314.i of the Municipal Code. Maintenance activities are limited between the hours of 7:00 a.m. and 8:00 p.m. on any day except Sunday or a federal holiday, or between the hours of 9:00 a.m. and 8:00 p.m. on Sunday or a federal holiday. As such, compliance with the noise

limits within the Municipal Code would result in noise levels that are acceptable to the City and would result in less than significant impacts related to these stationary sources of noise.

Project Construction Noise

**Less than Significant Impact.** Construction of the proposed Project would entail construction activities which include noise generated from demolition, grading/excavation, and building construction activities over a period of approximately 120 days. The assumptions are listed below:

- Demolition of the existing structures and pavement is anticipated to take three weeks and involve approximately 28 truckloads of demolition debris.
- Grading/Excavation activities would occur for two-weeks and involve the export of truckloads of soil.
- Building construction would take approximately twelve-weeks and would involve material delivery truck trips.

Local commercial and residential uses would be subject to elevated noise levels due to the operation of Project-related construction equipment. Construction activities are carried out in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise levels surrounding the construction site as work progresses. Construction noise levels reported in the U.S. Environmental Protection Agency's (USEPA's) *Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances* were used to estimate future construction noise levels for the Project (USEPA 1971). Typically, the estimated construction noise levels are governed primarily by equipment that produces the highest noise levels. Construction noise levels for each generalized construction phase (ground-clearing/demolition, excavation, foundation construction, building construction, paving, and site cleanup) are based on a typical construction equipment mix for a residential use project and do not include use of atypical, very loud, and vibration-intensive equipment (e.g., pile drivers).

The degree to which noise-sensitive receptors are affected by construction activities depends heavily on their proximity. Estimated noise levels attributable to the development of the proposed Project are shown in Table 20, and calculations are included in Appendix J, Noise Calculations.

**TABLE 20**
**CONSTRUCTION NOISE LEVELS AT NOISE-SENSITIVE USES**

| | Noise Levels ($L_{eq}$ dBA) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | **Northwest – Residential Uses** | | **West – CHP Building** | | **South – Nearest Residential** | | **East – Restaurant Building** | |
| **Construction Phase** | Max (200 ft) | Avg (325 ft) | Max (180 ft) | Avg (300 ft) | Max (80 ft) | Avg (170 ft) | Max (60 ft) | Avg (155 ft) |
| Ground Clearing/Demolition | 72 | 68 | 73 | 68 | 80 | 73 | 82 | 74 |
| Excavation | 67 | 63 | 68 | 63 | 75 | 68 | 77 | 69 |
| Foundation Construction | 66 | 62 | 67 | 62 | 74 | 67 | 76 | 68 |
| Building Construction | 63 | 59 | 64 | 59 | 71 | 64 | 73 | 65 |
| Paving and Site Cleanup | 63 | 59 | 64 | 59 | 71 | 64 | 73 | 65 |

$L_{eq}$ dBA: Average noise energy level; Max: maximum; avg: average; ft: feet.
Note: Noise levels from construction activities do not take into account attenuation provided by intervening structures.
Source: USEPA 1971.

Table 20 shows both the maximum and average noise levels for construction equipment. Maximum noise levels represent the noise levels from construction equipment occurring nearest to the noise sensitive use/receptor. Average noise levels represent the noise exposure to sensitive uses based on the distance to the center of the Project site. Noise levels from general Project-related construction activities would range from 63 to 82 dBA $L_{eq}$ for the maximum noise levels and 59 to 74 dBA $L_{eq}$ for the average noise levels. Noise level reductions from existing intervening buildings were not included. Noise levels from construction equipment would occur within the allowable hours (7 a.m. to 8 p.m. except Sunday and holidays) for construction activities per Santa Ana Municipal Code Section 18-314(i) – Activities with special provisions.

Truck trips are needed for delivery of construction equipment and materials as well as the export of the excavated soils. Noise generated from truck trips would be added to the ambient noise level generated by vehicle traffic. However, noise increases associated with Project truck traffic would be less than the 1.5-dBA traffic increase threshold due to the small magnitude of traffic resulting from hauling of grading materials relative to background traffic. It is anticipated that excavation of the site would result in up to four truck trips per day. The addition of four truck trips per day to roadway volumes of 10,585 ADT along Santa Clara Avenue would not result in a substantial increase in noise levels.

Noise from construction activities on site would be clearly audible above the existing ambient noise environment near the Project site but would occur during the least noise-sensitive portions of the day per Santa Ana Municipal Code Section 18-314(i) – Activities with special provisions. Noise levels from construction equipment would also not involve pile drivers or other equipment that generate excessive levels of noise. Because the Project would be limited to the least noise-sensitive hours of the day per Santa Ana Municipal Code

Section 18-314(i) and would be relatively short (120 days), noise associated with Project-related construction would not result in significant impacts, and no mitigation is required.

***b) Generation of excessive groundborne vibration or groundborne noise levels?***

**Less than Significant Impact.** The proposed Project would not generate or expose persons or structures to excessive groundborne vibration from construction. There are no applicable City standards for vibration-induced annoyance or building damage from vibration. The California Department of Transportation (Caltrans) vibration damage potential guideline thresholds are shown in Table 21.

**TABLE 21**
**VIBRATION DAMAGE THRESHOLD CRITERIA**

| Building Class | Continuous Source PPV (in/sec) | Single-Event Source PPV (in/sec) |
|---|---|---|
| Class I: buildings in steel or reinforced concrete, such as factories, retaining walls, bridges, steel towers, open channels, underground chambers and tunnels with and without concrete alignment | 0.5 | 1.2 |
| Class II: buildings with foundation walls and floors in concrete, walls in concrete or masonry, stone masonry retaining walls, underground chambers and tunnels with masonry alignments, conduits in loose material | 0.3 | 0.7 |
| Class III: buildings as mentioned above but with wooden ceilings and walls in masonry | 0.2 | 0.5 |
| Class IV: construction very sensitive to vibrations; objects of historic interest | 0.12 | 0.3 |
| PPV: peak particle velocity; in/sec: inch(es) per second.<br>Source: Caltrans 2013b. | | |

The building damage threshold for "Class II Buildings" of 0.3 peak particle velocity (ppv) inch per second (in/sec) was selected for retail buildings. The building damage threshold for "Class III Buildings" of 0.2 ppv was selected for residential buildings for this analysis. These thresholds represent the vibration limits for damage to adjacent buildings to the Project site from continuous sources of vibration.

The Caltrans vibration annoyance potential guideline thresholds are shown in Table 22, Vibration Annoyance Criteria. Based on the guidance in Table 22, the "strongly perceptible" vibration level of 0.9 ppv in/sec is considered as a threshold for a potentially significant vibration impact for human annoyance.

**TABLE 22**
**VIBRATION ANNOYANCE CRITERIA**

| Average Human Response | ppv (in/sec) |
|---|---|
| Severe | 2.0 |
| Strongly perceptible | 0.9 |
| Distinctly perceptible | 0.24 |
| Barely perceptible | 0.035 |
| ppv: peak particle velocity; in/sec: inch(es) per second.<br>Source: Caltrans 2013b. | |

Pile driving and blasting are generally the sources of the most severe vibration during construction. Neither pile driving nor blasting would be used during Project construction. Conventional construction equipment would be used for demolition and grading activities. Table 23 summarizes typical vibration levels measured during construction activities for various vibration-inducing pieces of equipment.

**TABLE 23**
**VIBRATION LEVELS FOR CONSTRUCTION EQUIPMENT**

| Equipment | | ppv at 25 ft (in/sec) |
|---|---|---|
| Pile driver (impact) | upper range | 1.518 |
| | typical | 0.644 |
| Pile driver (sonic) | upper range | 0.734 |
| | typical | 0.170 |
| Vibratory roller | | 0.210 |
| Large bulldozer | | 0.089 |
| Caisson drilling | | 0.089 |
| Loaded trucks | | 0.076 |
| Jackhammer | | 0.035 |
| Small bulldozer | | 0.003 |
| ppv: peak particle velocity; ft: feet; in/sec: inches per second.<br>Source: Caltrans 2013b; FTA 2018. | | |

Demolition, grading, and construction would occur up to the property lines. Some land uses identified in Table 24 below are relatively close to the property lines. Table 24, Vibration Annoyance Criteria at Sensitive Uses, shows the vibration levels from construction-generated vibration activities proposed at the Project site.

**TABLE 24**
**VIBRATION ANNOYANCE LEVELS AT SENSITIVE USES**

| | Vibration Levels (ppv) | | | |
|---|---|---|---|---|
| | **North – Retail** | **West – Parking Lot Uses and CHP** | **South – Nearest Residential** | **East – Restaurant and Parking Lot Uses** |
| **Equipment** | **(ppv @ 32 ft)** | **(ppv @ 175 ft)** | **(ppv @ 100 ft)** | **(ppv @ 46 ft)** |
| Vibratory roller | 0.145 | 0.011 | 0.026 | 0.084 |
| Large bulldozer | 0.061 | 0.005 | 0.011 | 0.036 |
| Small bulldozer | 0.002 | 0.000 | 0.000 | 0.001 |
| Jackhammer | 0.024 | 0.002 | 0.004 | 0.014 |
| Loaded trucks | 0.052 | 0.004 | 0.010 | 0.030 |
| **Criteria** | **0.9** | **0.9** | **0.9** | **0.9** |
| **Exceeds Criteria?** | **No** | **No** | **No** | **No** |

ppv: peak particle velocity; ft: feet.
Source: FTA 2018 (Calculations can be found in Appendix J).

As shown in Table 24, ppv would not exceed the criteria threshold when construction activities occur under maximum (i.e., closest to the receptor) exposure conditions. These vibration levels represent conditions when construction activities occur closest to receptor locations. Construction-related vibration would be substantially less under average conditions when construction activities are located further away. Because vibration levels would be below the vibration annoyance significance thresholds, vibration generated by the Project's construction equipment would not be expected to generate strongly perceptible levels of vibration at the nearest uses and would result in less than significant vibration impacts related to vibration annoyance. Table 25, Building Damage Levels at Sensitive Uses, shows the ppv relative to building damage to sensitive uses from vibration activities. As shown in Table 25, all ppv levels would be below the building damage threshold at adjacent off-site structures. Vibration levels would be below the building damage significance thresholds and vibration generated by the Project's construction equipment would not be expected to generate levels of vibration that would cause cosmetic damage at the nearest buildings; as such, the Project would result in less than significant vibration impacts related to vibration induced building damage.

**TABLE 25**
**BUILDING DAMAGE LEVELS AT NEARBY USES**

| | Vibration Levels (ppv)[1,2] | | | |
|---|---|---|---|---|
| | **North – Retail** | **West – Parking Lot Uses and CHP** | **South – Nearest Residential** | **East – Restaurant and Parking Lot Uses** |
| **Equipment** | **(ppv @ 32 ft)** | **(ppv @ 175 ft)** | **(ppv @ 100 ft)** | **(ppv @ 46 ft)** |
| Vibratory roller | 0.145 | 0.011 | 0.026 | 0.084 |
| Large bulldozer | 0.061 | 0.005 | 0.011 | 0.036 |
| Small bulldozer | 0.002 | 0.000 | 0.000 | 0.001 |
| Jackhammer | 0.024 | 0.002 | 0.004 | 0.014 |
| Loaded trucks | 0.052 | 0.004 | 0.010 | 0.030 |
| **Criteria** | **0.3** | **0.3** | **0.2** | **0.3** |
| **Exceeds Criteria?** | **No** | **No** | **No** | **No** |

ppv: peak particle velocity; ft: feet.
Source: FTA 2018 (Calculations can be found in Appendix J).

***c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the project area to excessive noise levels?***

**No Impact.** The Project site is located approximately 7 miles north of the John Wayne Airport. The John Wayne Airport is the closest airport to the Project site and there are no other airports located within 5 miles of the Project site. The Project site is located well outside the existing and projected 65-dBA CNEL noise contour of the John Wayne Airport. The Project site is not located within the vicinity of a private airstrip. Aircraft overflights do not significantly contribute to the noise environment at the Project site, and the Project would not expose people residing or working within the Project area to excessive noise levels. There would be no impact related to aircraft noise exposure at the Project site, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to noise; therefore, no mitigation measures are required.

# 4.14 POPULATION AND HOUSING

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)? | ☐ | ☐ | ☒ | ☐ |
| b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?***

**Less than Significant Impact.** The proposed Project involves the demolition of the two existing residential structures and associated improvements to accommodate the proposed 3,975 SF McDonald's building. As such, commercial uses would replace the existing residential uses on the site, and the Project would not contribute to an increase of a substantial residential population.

Jobs that would be created during construction would be short-term and would be typically filled by existing residents of the region. Therefore, the Project would not induce housing demand near the construction site due to the temporary nature of construction jobs. The Project would include a maximum of twelve employees working approximately three shifts per day, which would result in a maximum of 36 employees per day. As with the temporary construction workers, long-term operation employees are anticipated to be filled by existing residents of the region. Based on the 2020 RTP/SCS, the City of Santa Ana included 162,900 employees in 2016 and anticipated growth to 172,400 employees by 2045 (SCAG 2020b). As such, the anticipated 36 employees generated by the Project would be within anticipated growth for the City as projected by SCAG, and would not constitute a significant increase. The temporary construction crew and long-term employees of the Project would not create a significant change in demand for goods and services that may induce business investment, growth, or development in the area.

Additionally, the proposed Project would not include extension of roads or infrastructure such that would encourage development levels beyond what is already planned elsewhere in the City or indirectly induce growth. Therefore, the Project would not result in substantial unplanned population growth, directly or indirectly. The impacts would be less than significant, and no mitigation is required.

***b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?***

**Less than Significant Impact**. The Project site is currently developed with two single-story residential houses, two one-story detached garages, a pool, dirt areas, and associated asphalt concrete paving along East Santa Clara Avenue. Both existing residences on-site, including 2101 East Santa Clara Avenue and 2109 East Santa Clara Avenue, are currently vacant. As such, construction of the Project would not displace any residents located on the site. Therefore, the Project would not result in significant impacts related to displacement of housing and associated residents, and no replacement housing is required. No mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to population and housing; therefore, no mitigation measures are required.

# 4.15 PUBLIC SERVICES

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services: | | | | |
| i) Fire protection? | ☐ | ☐ | ☒ | ☐ |
| ii) Police protection? | ☐ | ☐ | ☒ | ☐ |
| iii) Schools? | ☐ | ☐ | ☐ | ☒ |
| iv) Parks? | ☐ | ☐ | ☒ | ☐ |
| v) Other public facilities? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:***

***i) Fire protection?***

**Less than Significant Impact.** The City contracts fire department services with the OCFA which fulfills both fire protection and emergency medical responsibilities. The OCFA operates ten stations throughout Santa Ana and has access to an additional 61 stations in its service area. These stations are well distributed, at an approximate of 1 ½ mile service radii throughout the City and the overlapping responsibility of fire companies allows adequate response to emergencies. The total response time for arrival of the first fire unit response goal (travel time) at a core incident is 7 minutes and 30 seconds within an urban area (OCFA 2014). The closest fire station to the Project site is OCFA–Santa Ana Fire Station #70, located at 2310 N Old Grand Street, approximately 0.8 miles west of the Project site.

As stated above in Threshold 4.14, Population and Housing, the proposed Project would not involve the construction of residential units which could lead to a population increase and therefore the need for additional fire services. The Project would construct a McDonald's restaurant and drive-thru, which would result in a maximum of 36 employees may nominally increase the need for fire protection services. The Project would be required to comply with all applicable codes, ordinances, and regulations (including the City of Santa Ana Municipal

Code, California Building Code and California Fire Code) regarding fire prevention and suppression measures, fire hydrants and sprinkler systems, emergency access, premises identification requirements, emergency responder radio coverage requirements, defensible space requirements, and other similar requirements. The proposed Project plans would be required to be reviewed and approved by the City and OCFA to ensure fire prevention requirements are met. This would additionally minimize Project demand for fire protection services. Therefore, no physical impacts associated with the provision of fire protection services would occur. There would be less than significant impacts related to fire protection services, and no mitigation is required.

***ii) Police protection?***

**Less than Significant Impact.** Police protection services are provided to the City including the Project site by the Santa Ana Police Department (SAPD). The SAPD includes multiple departments, including the Field Operations Bureau, comprised of the patrol, operations and traffic divisions. The SAPD central police station is located at 60 Civic Center Plaza, and the City's Westend substation is located at 3750 West McFadden Avenue. In addition, the police department maintains the Santa Ana Regional Transportation Public Safety Office and Jose Vargas Community Affairs Office (SAPD 2023). The closest police station to the Project site is the City's substation, located approximately 3.6 miles west of the Project site.

As stated above in Threshold 4.14, Population and Housing, the proposed Project would not involve the construction of residential units which could lead to a population increase and therefore the need for additional police services. The Project would construct a McDonald's restaurant and drive-thru, which would result in a maximum of 36 employees and may nominally increase the need for police protection services. The incremental demand of the Project for police protection services is not anticipated to increase SAPD response times to the Project site or surrounding area. Additionally, the Project would provide security measures such as controlled access, security cameras and lighting. The McDonald's would include a security camera system both inside and outside of the restaurant, which would be used to monitor the drive thru, the queuing and the overall lot. As such, the Project would not require the construction of new or alteration of existing police protection facilities to maintain an adequate level of service to the Project area, and no physical impacts would result. There would be a less than significant impact, and no mitigation is required.

***iii) Schools?***

**No Impact.** The Project site is located within the service areas of the Orange Unified School District. However, as the Project would not involve construction of residential units, the Project would not increase student populations within the City. Therefore, no impacts associated with the need for new or physically altered government facilities, such as schools, would occur, and no mitigation would be required.

***iv) Parks?***

**Less than Significant Impact.** According to the City of Santa Ana Parks Master Plan (PMP), the City of Santa Ana manages 54 parks, nine joint-use school sites, and approximately 13

miles of off-street trails for recreation use. These sites support a variety of indoor and outdoor facilities and programs. The City strives to provide parks within a 10-minute walking or biking distance of all residents (approximately 0.25 to 0.5 mile). The 2022 General Plan sets a long-range goal to provide three acres of parkland for every 1,000 residents in the future. As a 10-year investment strategy and action plan, the PMP provides detailed guidance to take the first step towards the General Plan's goal: increasing the City's parkland to 1.5 acres per 1,000 residents, or 1.85 acres per 1,000 residents taking into account new trail corridors and potential new joint-use sites (City of Santa Ana 2022b).

The proposed Project would not introduce new residents into the area which would increase the use of existing parks and reduce performance objectives. The Project would construct a McDonald's restaurant and drive-thru, which would result in a maximum of 36 employees and may nominally increase the need for parks facilities. However, these employees would likely already reside in the City and would not generate a significant increased demand for recreational facilities. In addition, the Project developed would be required to pay all applicable park fees. As such, the Project would not require the construction of new or alteration of existing park facilities and no physical impacts would result. There would be a less than significant impact, and no mitigation is required.

#### *v) Other public facilities?*

**Less than Significant Impact.** The City of Santa Ana Library provides library services to the City through the Main Library (located at 26 Civic Center Plaza) and the Newhope Library Branch (located at 122 N Newhope Street). The proposed Project would not introduce new residents into the area which would increase the use of existing library services. The Project would construct a McDonald's restaurant and drive-thru, which would result in a maximum of 36 employees and may nominally increase the demand for library facilities. However, these employees would likely already reside in the City and would not generate a significant increased demand. Additionally, the Santa Ana Library system provides a wide range of electronic and digitized resources that do not require physical library space. As such, the Project would not require the construction of new or alteration of existing library facilities, and no physical impacts would result. There would be a less than significant impact, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to public services; therefore, no mitigation measures are required.

# 4.16 RECREATION

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | ☐ | ☐ | ☒ | ☐ |
| b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?***

**Less than Significant Impact.** As stated above in Threshold 4.15, Public Services, the City of Santa Ana owns and maintains a variety of parks, joint-use school sites, and off-street trails for recreation use, which support a variety of indoor and outdoor facilities and programs. The PMP goal aims to increase the City's parkland to 1.5 acres of parkland per 1,000 residents, or 1.85 acres per 1,000 residents taking into account new trail corridors and potential new joint-use sites (City of Santa Ana 2022b). The Project is located near City parks and recreational facilities, including Portola Park (located at 1700 East Santa Clara Avenue), Cabrillo Park (located at 1820 E Fruit Street), Maybury Park (located at 1801 E Fruit Street), and Saddleback View Park (located at 631 Patricia Lane), which include facilities such as playgrounds, picnic tables, fitness court and studios, tennis courts, basketball courts, baseball diamonds, and multi-purpose fields.

The proposed Project would not introduce new residents into the area which would increase the use of existing parks and reduce performance objectives. The Project would construct a McDonald's restaurant and drive-thru, which would result in a maximum of 36 employees and may nominally increase the need for parks facilities. However, these employees would likely already reside in the City and would not generate a significant increased demand for recreational facilities. Due to the small number of employees that would be introduced by the Project, the minor increase in the use of existing public park facilities by the Project would not be at a level that would result in physical deterioration of existing parks and other recreational facilities, nor would it require the need for new or physically altered facilities. In addition, the Project developed would be required to pay all applicable park fees. Therefore, impacts would be less than significant, and no mitigation is required.

***b) Include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?***

**Less than Significant Impact.** As described above, the Project would not increase the City's residential population and the nominal increase in employees would not result in physical effects that would require the construction or expansion of recreational facilities. As such, impacts would be less than significant, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to recreation; therefore, no mitigation measures are required.

# 4.17 TRANSPORTATION

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities? | ☐ | ☐ | ☒ | ☐ |
| b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | ☐ | ☐ | ☒ | ☐ |
| c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | ☐ | ☐ | ☒ | ☐ |
| d) Result in inadequate emergency access? | ☐ | ☐ | ☒ | ☐ |

## Introduction

A Transportation Analysis was prepared by Urban Crossroads, dated August 16, 2023, and included as Appendix K. Additionally, a VMT Screening Evaluation was prepared by Urban Crossroads, dated December 11, 2023 and included as Appendix L.

## Impact Analysis

***Would the Project:***

***a) Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?***

**Less than Significant Impact.** The Project is primarily guided by the following transportation-related programs and plans, including the Orange General Plan Circulation Element (County of Orange 2020), City of Santa Ana General Plan Mobility Element (City of Santa Ana 2022f), and the City of Santa Ana Master Plan of Bikeways (City of Santa Ana 2021a). These programs and plans discuss existing transit, roadways, bicycle, and pedestrian facilities within the County and City, analyzed further below.

Transit

The Project site is currently served by OCTA with bus service along Tustin Street via Route 71 and 17th Street via Route 60. There are currently two bus stops located along Route 71 on Tustin Avenue near the proposed Project, with the closest one located just 400 feet northeast of the Project. Transit service is reviewed and updated by OCTA periodically to address ridership, budget, and community demand needs. Future Project employees and visitors would continue to utilize the existing public transit system within the Project vicinity. The Project would not conflict with the Orange General Plan Circulation Element or City of Santa Ana Mobility Element, as it would provide commercial uses within a high use area surrounded by other commercial and residential uses, with transportation services

nearby. As such, the Project would not conflict with any programs, plans, or ordinances addressing transit facilities serving the Project site.

Roadways

Within a local context, the Project site is located on the northern side along East Santa Clara Avenue, which is classified as by the Santa Ana Mobility Element as a Divided Collector Arterial, meaning a street with two travel lanes and a continuous center two-way left turn lane, but may be divided by raised median, with an expanded right-of-way to accommodate bike lanes. Additionally, the site is located approximately 0.04 miles west of North Tustin Avenue, which is classified as a Major Arterial, meaning a street with six travel lanes and a center median and typically includes bus transit, pedestrian sidewalks, and bicycle lanes. Future Project employees and visitors would continue to utilize the existing roadways within the Project vicinity. The Project would not conflict with the Orange General Plan Circulation Element or City of Santa Ana Mobility Element, as it would provide commercial uses within a high use area surrounded by other commercial and residential uses, with local roadway facilities nearby. As such, the Project would not conflict with any programs, plans, or ordinances addressing roadway facilities serving the Project site.

Bicycle and Pedestrian Facilities

The City of Santa Ana Master Plan of Bikeways within the Project area includes existing Class II bike lanes along Santa Clara Avenue, and a Class IV cycle track exists along Fairhaven Avenue, Tustin Avenue, and 17th Street. Existing pedestrian facilities within the Project site include sidewalks and cross walks. The proposed Project would remove the existing 8-foot sidewalk and replace it with a 10-foot sidewalk per City of Santa Ana Standard Plan 1104, which would connect to and provide continuation of the existing sidewalk areas along East Santa Clara Avenue. The Project would remove the western most driveway along East Santa Clara and replace it with sidewalk, and rebuild the eastern most existing driveway located along East Santa Clara Avenue per City of Santa Ana Standard Plan 1112. In addition, the Project would improve the existing driveway located on North Tustin Avenue with enhanced decorative paving. Additionally, the Project would provide 4 bicycle storage spaces, per City Code requirements. The Project would not conflict with the Master Plan of Bikeways or the City Mobility Element, as it would provide bicycle storage facilities and improve pedestrian facilities along East Santa Clara Avenue. As such, the Project would not conflict with any programs, plans, or ordinances addressing bicycle and pedestrian facilities serving the Project site.

Therefore, there would be a less than significant impact, and no mitigation measures are required.

***b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?***

**Less than Significant Impact.** As stated in the VMT Screening Evaluation, the Governor's Office of Planning and Research (OPR) published its Technical Advisory on Evaluating Transportation Impacts in CEQA (Technical Advisory). Based on OPR's Technical Advisory,

the City of Santa Ana has prepared their City of Santa Ana Traffic Impact Study Guidelines. The City's Guidelines list standardized screening methods for project level VMT analysis that can be used to identify when a proposed land use development project is anticipated to result in a less than significant impact thereby eliminating the need to conduct a full VMT analysis. The City of Santa Ana VMT screening types, as described within the City Guidelines, including Transit Priority Area Screening, Low VMT Area Screening, and Project Type Screening. A land use project need only to meet one of the above screening thresholds to result in a less than significant impact.

Under the Project Type Screening, the City Guidelines describe that local serving retail projects less than 50,000 square feet may be presumed to have a less than significant impact absent substantial evidence to the contrary. The Project proposes to develop a drive-thru quick serve restaurant of 3,975 square feet which is below the 50,000 square feet project type screening threshold as identified by the City Guidelines. As the Project meets the screening criteria under the Project Type Screening Threshold, the proposed Project is presumed to result in a less than significant impact for VMT. Therefore, no further VMT analysis is required. Therefore, there would be a less than significant impact, and no mitigation measures are required.

***c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses?***

**Less Than Significant Impact.** The Transportation Analysis addressed traffic conditions for multiple different scenarios, including existing (2022) baseline conditions, existing with Project conditions, opening year (2023) cumulative without Project conditions, opening year cumulative with Project conditions, horizon year without Project conditions (2040), and horizon year with Project conditions. A queuing analysis was performed for the left turning movements at the intersection of Tustin Avenue & Santa Clara Avenue to assess vehicle queues along the roadways and prevent dangerous intersections. Queuing analysis findings are presented in Appendix K. The intersection left turning movements currently experience and are anticipated to experience acceptable queuing during the peak hours based on the 95th percentile peak hour traffic flows for each of the scenarios proposed above.

In addition, the Transportation Analysis conducted a traffic signal warrant analysis to determine the potential need for installation of a traffic signal at an otherwise unsignalized intersection, including at the intersection of the Driveway 1 (located along East Santa Clara Avenue) and East Santa Clara Avenue, and the intersection between Tustin Avenue and Driveway 2 (located along Tustin Avenue). As concluded by the Transportation Analysis, the addition of Project traffic would not trigger the City of Santa Ana's significance criteria, and no traffic signal is warranted for either intersection for each of the scenarios proposed above.

The Transportation Analysis performed a drive-thru analysis for the Project to determine if the proposed circulation plan provided adequate on-site drive-thru storage capacity to accommodate the peak on-site vehicle demand. Ultimately, the drive-thru analysis suggested that the Project would provide stacking accommodations for approximately 16 vehicles within the drive-thru, and there would be sufficient capacity to accommodate average and peak vehicle demands for the proposed Project.

Overall, the Project would incorporate all recommendations provided by the Transportation Analysis, including the Project should maintain existing traffic controls and configuration at Project driveways, and on-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site. Additionally, the Project Applicant's responsibility for the Project's contributions towards deficient off-site intersections is fulfilled through payment into pre-existing fee programs (if applicable) that would be assigned to the future construction of any future local/regional improvement needs. The Project Applicant would be required to pay requisite fees consistent with the City's requirements. With incorporation of all recommendations provided by the Transportation Analysis, the Project would not substantially increase hazards due to a geometric design feature or incompatible use. Therefore, impacts would be less than significant, and no mitigation is required.

***d) Result in inadequate emergency access?***

***Less than Significant Impact.*** Construction activities for the Project, including staging and worker parking would occur on site. All construction staging areas would be prohibited to occur on the street or within the public right-of-way. The Project would likely close lanes and temporarily alter traffic patterns along Santa Clara Avenue during construction. However, the Project would not completely close Santa Clara Avenue at any point. The Project would comply with all conditions set forth in the required Project specific TCP, which would be reviewed and approved by the City prior to initiation of construction activities. Therefore, with implementation of the required TCP, the temporary closure of a few lanes along Santa Clara Avenue would not result in a significant interference of emergency access during construction.

Per the City's permitted hours for construction, activities will occur for a minimum of eight hours per day, six days per week, and would access the site via East Santa Clara Avenue. The Project would be subject to review by the Building Division and OCFA to ensure compliance with building and fire codes. The Project would not work within the public right-of-way without undergoing proper review through the Public Works department, which would require a Street Work Permit. Therefore, the Project would have less than significant impacts regarding interference with emergency response or evacuation plans during construction, and no mitigation is required.

In the long-term, the Project would provide primary vehicular ingress and egress points to and from the Project site via two driveways. The Project would rebuild the eastern most existing driveway located along East Santa Clara Avenue. In addition, the Project would improve the existing driveway located on North Tustin Avenue with enhanced decorative paving. Both driveways could be utilized for emergency response to the site and for emergency evacuation of the site. Operationally, the Project would not affect emergency response or emergency evacuation of adjacent land uses. The Project would incorporate all recommendations provided by the Transportation Analysis, including the site access recommendation which state the Project should maintain existing traffic controls and configuration at Project driveways, and on-site traffic signing and striping should be implemented agreeable with the provisions of the CA MUTCD and in conjunction with detailed construction plans for the Project site. Therefore, the Project would have less than

significant impacts regarding interference with emergency response or evacuation plans during operation, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to transportation; therefore, no mitigation measures are required.

# 4.18 TRIBAL CULTURAL RESOURCES

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is: | | | | |
| 1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or | ☐ | ☐ | ☒ | ☐ |
| 2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. | ☐ | ☒ | ☐ | ☐ |

## Introduction

This section evaluates the Project's potential to have adverse effects on Tribal Cultural Resources. The analysis in this section is based on the results of the archaeological records searches conducted by Psomas and consultation with California Native American Tribes, conducted by the City of Santa Ana for the Project, as required by CEQA per AB 52. The AB 52 Tribal Consultation information can be found in Appendix M, to this IS/MND.

Additionally, an inquiry was made to the NAHC by Psomas to request a review of the Sacred Lands File (SLF) database regarding the possibility of Native American cultural resources and/or sacred places in the Project vicinity that are not documented on other databases, and included in Appendix B. The NAHC results were negative.

The City of Santa Ana initiated consultation on October 2, 2023, by notifying the City's consultation list provided by the NAHC, as required by AB 52, and concluded consultation on November 2, 2023. Further details related to AB 52 consultation are provided below.

## Impact Analysis

***Would the Project:***

***a) Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:***

***1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?***

**Less than Significant Impact.** As discussed in Section 4.5, Cultural Resources, the SCCIC record search and literature review did not identify any previously recorded precontact or tribal cultural resources within the Project site. Furthermore, the SLF search did not identify the Project site as sensitive for known sacred lands/sites as the NAHC results were negative. As such, there are no known tribal cultural resources within the Project site.

Additionally, the Project site is generally underlain by Quaternary-aged young Holocene alluvial soils, and the native sediment has been disturbed. Therefore, the Project is not anticipated to result in significant impacts to tribal cultural resources that are listed or may be eligible for listing in the California Register of Historical Resources, or in a local register of historical resources, as defined in Public Resources Code Section 5020.1(k). No mitigation is required.

***2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.***

**Less than Significant with Mitigation Incorporated.** Because Native American tribes frequently have knowledge concerning important undocumented cultural resources, the lead agency (City of Santa Ana) submitted Project notification letters to initiate tribal consultation, consistent with the requirements of AB 52. Consultation was initiated by the City on October 2, 2023 and closed on November 2, 2023. The City mailed notification letters to each tribal representative on the NAHC Native American contact list for Orange County, notifying the representatives of the Project and to invite them to participate via consultation. These following tribes were notified of the Project as part of the AB 52 process: the Campo Band of Diegueno Mission Indians, the Ewiiaapaayp Band of Kumeyaay Indians, the Gabrieleno Band of Mission Indians - Kizh Nation, the Gabrieleno/Tongva San Gabriel Band of Mission Indians, the Gabrielino /Tongva Nation, the Gabrielino Tongva Indians of California Tribal Council, the Gabrielino-Tongva Tribe,

the Juaneno Band of Mission Indians Acjachemen Nation – Belardes, the Juaneno Band of Mission Indians Acjachemen Nation 84A, the La Posta Band of Diegueno Mission Indians, the Manzanita Band of Kumeyaay Nation, the Mesa Grande Band of Diegueno Mission Indians, the Pala Band of Mission Indians, the Santa Rosa Band of Cahuilla Indians, and the Soboba Band of Luiseno Indians.

Two tribes responded: the Gabrieleno Band of Mission Indians – Kizh Nation on October 2, 2023 and the Gabrielino Tongva Indians of California Tribal Council on October 4, 2023. The Gabrielino Tongva responded via email on October 4, 2023 requesting additional information regarding cultural reporting. The City provided this information on October 6, 2023.

The City and Kizh Nation conducted consultation via email, and consultation was closed on November 8, 2023 with understanding to implement agreed upon mitigation measures. Although a significant impact on known tribal cultural resources has not been identified, the City would voluntarily implement the actions described in MMs TCR-1, TCR 2, and TCR-3, which recognize the Kizh Nations' concerns during construction activities; would require the presence of a Native American monitor to observe ground disturbing activity; and provide the discovery protocol upon unanticipated discovery of a TCR for non-funerary/ceremonial and for funerary or ceremonial object. Therefore, MMs TCR 1, TCR-2 and TCR-3 have been included in this IS/MND to facilitate implementation of the voluntary actions. As such, impacts related to tribal cultural resources would be less than significant with mitigation incorporated.

## Mitigation Measures

**MM TCR-1 Retain a Native American Monitor Prior to Commencement of Ground-Disturbing Activities**

A. The Project Applicant shall retain a Native American Monitor acceptable by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject project at all project locations (i.e., both on-site and any off-site locations that are included in the project description/definition and/or required in connection with the project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.

B. A copy of the executed monitoring agreement shall be submitted to the Lead Agency prior to the earlier of the commencement of any ground-disturbing activity, or the issuance of any permit necessary to commence a ground-disturbing activity.

C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground-disturbing activities,

soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the Tribe. Monitor logs will identify and describe any discovered TCRs, including but not limited to, Native American cultural and historical artifacts, remains, places of significance, etc., (collectively, tribal cultural resources, or "TCR"), as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitor logs will be provided to the project applicant/lead agency upon written request to the Tribe.

D. On-site tribal monitoring shall conclude upon the latter of the following (1) written confirmation to the Kizh from a designated point of contact for the Project Applicant/Lead Agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the project site or in connection with the project are complete; or (2) a determination and written notification by the Kizh to the Project Applicant/Lead Agency that no future, planned construction activity and/or development/construction phase at the project site possesses the potential to impact Kizh TCRs.

**MM TCR-2 Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial)**

Upon discovery of any TCRs, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the Kizh monitor and/or Kizh archaeologist.

**MM TCR-3 Unanticipated Discovery of Human Remains and Associated Funerary or Ceremonial Objects**

Native American human remains are defined in PRC 5097.98 (d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in Public Resources Code Section 5097.98, are also to be treated according to this statute.

If Native American human remains and/or grave goods are discovered or recognized on the project site, then Public Resource Code 5097.9 as well as Health and Safety Code Section 7050.5 shall be followed.

Human remains and grave/burial goods shall be treated alike per California Public Resources Code section 5097.98(d)(1) and (2).

Preservation in place (i.e., avoidance) is the preferred manner of treatment for discovered human remains and/or burial goods.

Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

# 4.19 UTILITIES AND SERVICE SYSTEMS

| Would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | ☐ | ☐ | ☒ | ☐ |
| b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years? | ☐ | ☐ | ☒ | ☐ |
| c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | ☐ | ☐ | ☒ | ☐ |
| d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | ☐ | ☐ | ☒ | ☐ |
| e) Comply with federal, state, and local statutes and regulations related to solid waste? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis

***Would the Project:***

***a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?***

**Less than Significant Impact.**

### *Water*

Water services are currently provided to the Project site by the City of Santa Ana Public Works Agency Water Resources Division. The proposed Project would construct private water lines on-site to connect to the City's existing water facilities in East Santa Clara Avenue. Payment of standard water connection fees, ongoing user fees, and development impact fees under Sana Ana Municipal Code Section 39-2, Water and Sewer Systems Development Impact Fees, would ensure that the Project's impacts on existing water facilities are adequately offset. Additionally, all private water lines are required to be designed and constructed in accordance with the latest edition of the Standard Specifications for Public Works Construction, the American Water Works Association Standards, and the California Waterworks Standards per Municipal Code Section 39-3, Water and Sewer Systems Design

Standards. Given that the Project would demolish two existing residences, which are currently served by the City's Water Resources Division, it is not anticipated that Project implementation would require construction of new or expanded water facilities that would result in significant environmental effects. Therefore, impacts related to water facilities would be less than significant, and no mitigation is required.

### *Wastewater Treatment*

Wastewater generated from the Project site is collected by the City's local wastewater collection system and is then conveyed to the Orange County Sanitation Districts (OCSD) trunk mainlines for conveyance and treatment. OCSD is responsible for safely collecting, treating, and disposing of wastewater generated by users in its service area, which encompasses an approximately 479 square mile area with a population of approximately 2.6 million people (OCSD 2023). Wastewater generated at the Project site is treated by at OCSD's Treatment Plant No. 1 in Fountain Valley. The treatment plant has a secondary treatment capacity of 182 million gallons of wastewater per day (mgd). Average wastewater flows through Plant No. 1 are about 120 to 130 mgd. Thus, the minimum residual capacity is about 52 mgd. Wastewater treated at Treatment Plant No. 1 is sent to the OCWD for further treatment in the groundwater replenishment system facility in Fountain Valley, which provides purified water via secondary-treated wastewater (City of Santa Ana 2021c).

Effluent from the Project would be collected and directed to the OCSD trunk sewer lines. The Project would not require the relocation of or new or expanded wastewater or storm facilities to be built. Sewer lines for the Project would be connected to existing City sewer lines. Therefore, there would be a less than significant impact, and no mitigation is required.

### *Storm Drainage*

As stated previously in Section 4.10, Hydrology and Water Quality, the Project would install a series of curb and gutters, on-site catch basins, and an underground detention basin to capture and retain stormwater on-site, then pump all runoff to the existing curb and gutter on Santa Clara Ave. The Project's potential environmental effects for construction of the stormwater drainage improvements are analyzed in this IS. Construction of the new storm drain improvements would be subject to compliance with all applicable local, State, and Federal laws, ordinances, and regulations. Compliance with relevant laws, ordinances, and regulations would ensure the Project's impacts associated with the proposed storm drain improvements are reduced to less than significant levels. Therefore, impacts related to stormwater facilities would be less than significant, and no mitigation is required.

### *Dry Utilities*

Natural gas, electricity, and telecommunication services are provided to the Project site by the Southern California Gas Company, Southern California Edison, and Spectrum, respectively. The Project's projected natural gas usage is shown in Table 10, in Section 4.6, Energy and the projected electricity usage is shown in Table 11, in Section 4.6, Energy. The Project would involve constructing new private on-site dry utility lines associated with such services. Payment of standard utility connection fees and ongoing user fees would be

required to ensure these utility services would be able to accommodate the proposed development. Project construction would not encroach into the public right-of-way without undergoing proper review through the Public Works department, which would require a Street Work Permit.

Therefore, the Project would not require the construction or expansion of water or wastewater infrastructure and treatment facilities, stormwater drainage, electric power, natural gas, and telecommunications facilities. Impacts would be less than significant, and no mitigation is required.

***b) Have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple years?***

**Less than Significant Impact.** As stated in the City of Santa Ana 2020 UWMP, the City depends on a combination of imported and local supplies to meet its water demands and has taken numerous steps to ensure it has adequate supplies (City of Santa Ana 2021b). The Metropolitan Water District of Southern California (MET)'s 2020 UWMP concludes that they can meet full--service demands of their member agencies through 2045 during normal years, single-dry years, and multiple-dry years. Consequently, the City is projected to meet full-service demands through 2045 for all scenarios, due to diversified supply and conservation measures. The Drought Risk Assessment evaluates the City's near-term ability to supply water assuming the City is experiencing a drought over the next five years, and even under the assumption of a drought over the next five years, MET's 2020 UWMP concludes a surplus of water supplies would be available to all of its Member Agencies, including the City, should the need for additional supplies arise to close any local supply gap. Additionally, the City partakes in various efforts to reduce its reliance on imported water supplies such as increasing the use of local groundwater and recycled water supplies (City of Santa Ana 2020b).

The proposed McDonald's would require water for the daily needs of customers as well as for landscaping, maintenance, and operation of the facility. The proposed development is estimated to create an indoor water demand of 693,500 gallon per year and outdoor water demand of 97,090 gallons per year, for a total of 790,590 gallons per year, which equates to 2,166 gallons per day or 2.4-acre feet per year[2].

The Project's estimated water demand of 2.4 acre-feet per year would represent less than one percent of the City's total water demand of 35,915 acre-feet for 2025 and 35,858 acre-feet for 2040. Additionally, the Project would be required to comply with water efficiency standards in the 2022 California Building Energy Efficiency Standards and 2022 California Green Building Standards Code. Therefore, impacts related to water supplies would be less than significant, and no mitigation is required.

[2] The indoor and outdoor water rate use is derived from CalEEMod default water demand for the Project site, based upon land uses/size. These details can be found in Appendix A to this IS/MND.

***c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?***

**Less than Significant Impact.** Based on the commercial wastewater generation factor of 2,262 gallons per day per acre and the building footprint area of 0.09 acre, the Project would generate approximately 204 gallons per day of wastewater (City of Santa Ana 2021c).

As stated above, wastewater generated at the Project site is treated by at OCSD's Treatment Plant No. 1 in Fountain Valley. The treatment plant has a secondary treatment capacity of 182 mgd. Average wastewater flows through Plant No. 1 are about 120 to 130 mgd. Thus, the minimum residual capacity is about 52 mgd. As such, the Project would represent less than one percent of the remaining daily capacity (52 mgd) of Treatment Plant No. 1. The Project's uses would contribute a very minimal amount of wastewater when compared to the wastewater capacity of the City. The Project would not exceed the capacities of the wastewater treatment facilities. As such, impacts would be less than significant, and no mitigation is required.

***d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?***

**Less than Significant Impact.** Waste Management of Orange County provides commercial waste collection for the City, including the Project site. Waste Management operates two yards, located in the cities of Santa Ana and Irvine, and two transfer stations, located in the cities of Orange and Irvine. These facilities accept trash and recyclables from local waste haulers, businesses such as landscapers or construction firms, and local residents. There are two primary landfill sites within the City, including Frank R. Bowerman Sanitary Landfill, located at 11002 Bee Canyon Road in Irvine, which has a permitted daily capacity of 11,500 tons per day, average daily disposal of 8,583 tons per day, a residual capacity of 2,917 tons per day, and estimated 2053 closure year. The other primary landfill is the Olinda Alpha Sanitary Landfill, located at 1942 North Valencia Avenue in Brea, which is currently operating at capacity (City of Santa Ana 2021c). Although not currently known which landfill the site would utilize, for purposes of this analysis, the Project would be most likely to utilize the Frank R. Bowerman Sanitary Landfill.

Project construction is not anticipated to generate significant quantities of solid waste with the potential to affect the capacity of regional landfills. Further, all construction activities would be subject to conformance with relevant federal, State, and local requirements related to solid waste disposal. Specifically, the Project would be required to demonstrate compliance with the California Integrated Waste Management Act of 1989 (AB 939), which requires all California cities to "reduce, recycle, and re-use solid waste generated in the State to the maximum extent feasible." AB 939 requires that at least 50 percent of waste produced is recycled, reduced, or composted. The Project would also be required to demonstrate compliance with the 2022 Green Building Code, which includes design and construction measures that act to reduce construction-related waste through material conservation and other construction-related efficiency measures. Compliance with these regulations would

ensure the Project's construction-related solid waste impacts would be less than significant, and no mitigation is required.

Based on a multi-family residential solid waste generation rate of 5 pounds per 1,000 SF per day, the proposed Project would generate approximately 20 pounds of solid waste per day (or 0.01 tons per day) (CalRecycle 2023). The Project's nominal solid waste generation represents less than one percent of the total residual capacity of 2,917 tons per day from the Frank R. Bowerman Sanitary Landfill. As such, the Project is not anticipated to generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Impacts in this regard would be less than significant, and no mitigation is required.

***e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?***

**Less than Significant Impact.** As stated above, the proposed Project would comply with all federal, State, and local statutes and regulations related to solid waste, including the California Integrated Waste Management Act and City recycling programs. Specifically, the Project would be subject to AB 939, which requires that at least 50 percent of waste produced is recycled, reduced, or composted, and would be required to comply with Section 4.408 of the 2019 California Green Building Code Standards, which requires that at least 65 percent of nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse. Development would also comply with the requirements of AB 341 that mandates recycling for commercial and multifamily residential land uses. Additionally, if the Project generates organic waste in amounts over a certain threshold, it would be mandated to recycle organic matter in accordance with AB 1826 (City of Santa Ana 2021c). Therefore, the Project would comply with all federal, State and local management and reduction statuses and regulations related to solid waste. Impacts would be less than significant, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to utilities and service systems; therefore, no mitigation measures are required.

# 4.20 WILDFIRE

| If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project: | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Substantially impair an adopted emergency response plan or emergency evacuation plan? | | ☐ | ☐ | ☒ |
| b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | ☐ | ☐ | ☐ | ☒ |
| c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | ☐ | ☐ | ☐ | ☒ |
| d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | ☐ | ☐ | ☐ | ☒ |

## Impact Analysis

***If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the Project:***

***a) Substantially impair an adopted emergency response plan or emergency evacuation plan?***

**No Impact.** The proposed Project is not designated as a Fire Hazard Severity Zone within a State responsibility area or designated as a VHFHSZ within a local responsibility area, as defined by the California Department of Forestry and Fire Prevention (CAL FIRE) (CAL FIRE 2023). During construction activities, all construction staging areas would occur on-site and would be prohibited to occur on the street or within the public right-of-way. A minimum 40- by 16-foot-wide staging area would be available for the entire duration of construction. The Project would likely close lanes and temporarily alter traffic patterns along Santa Clara Avenue during construction. However, the Project would not completely close Santa Clara Avenue at any point. The Project would comply with all conditions set forth in the required Project specific TCP, which would be reviewed and approved by the City prior to initiation of construction activities. Therefore, with implementation of the required TCP, the temporary closure of a few lanes along Santa Clara Avenue would not result in a significant interference of emergency access during construction. Additionally, because Checklist Response thresholds 4.20a through 4.20d apply only to those projects that are "located in or near state responsibility areas or lands classified as very high fire hazard severity zones", no impacts related to these thresholds would occur, and no mitigation is required.

***b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?***

**No Impact.** The Project site is in a highly urbanized area of the City, and there are no large, undeveloped areas and/or steep slopes on or near the site that would exacerbate fire risks such that would expose the Project and its occupants to wildfire related hazards. The site and the surrounding areas are not located in designated VHFHSZ, as identified by CAL FIRE. Rather, the site is within a Non-VHFHSZ area. Therefore, the Project is not expected to exacerbate wildfire risks and create pollutants associated with wildfire or uncontrolled spread of wildfire. Additionally, because Checklist Response thresholds 4.20a through 4.20d apply only to those projects that are "located in or near state responsibility areas or lands classified as very high fire hazard severity zones", no impacts related to these thresholds would occur, and no mitigation is required.

***c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?***

**No Impact.** As previously described, the proposed Project is not within a designated VHFHSZ as defined by CAL FIRE. As discussed in Section 3.0, Project Description, the site is located in a highly urbanized area and surrounded by developed land on all sides. All proposed structures would be constructed to meet current building and fire codes. Implementation of the proposed Project and maintenance of associated infrastructure would not exacerbate fire risk such that would result in a significant temporary or ongoing impact. Additionally, because Checklist Response thresholds 4.20a through 4.20d apply only to those projects that are "located in or near state responsibility areas or lands classified as very high fire hazard severity zones", no impacts related to these thresholds would occur, and no mitigation is required.

***d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?***

**No Impact.** As previously described, the proposed Project is not within a designated VHFHSZ as defined by CAL FIRE. The Project is in a highly urbanized area that is in a generally flat topographical area away from downslope or landslide areas. Specifically, implementation of the Project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. Additionally, because Checklist Response thresholds 4.20a through 4.20d apply only to those projects that are "located in or near state responsibility areas or lands classified as very high fire hazard severity zones", no impacts related to these thresholds would occur, and no mitigation is required.

## Mitigation Measures

Project implementation would not result in significant impacts related to wildfire; therefore, no mitigation measures are required.

# 4.21 MANDATORY FINDINGS OF SIGNIFICANCE

| | Potentially Significant Impact | Less Than Significant With Mitigation Incorporated | Less Than Significant Impact | No Impact |
|---|---|---|---|---|
| a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | ☐ | ☒ | ☐ | ☐ |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ('Cumulatively considerable' means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects) | ☐ | ☐ | ☒ | ☐ |
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | ☐ | ☐ | ☒ | ☐ |

## Impact Analysis:

***Would the Project:***

***a) Have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?***

**Less than Significant with Mitigation Incorporated.** There are no sensitive biological resources, habitats, or species on the Project site that would be affected by the Project. As indicated in Section 4.4, Biological Resources, of this IS/MND, given the current developed condition and the existing trees and shrubs on the site, migratory birds may nest on the vegetation on-site. However, compliance with the MBTA would avoid impacts to active bird nests during construction of the Project. Impacts on migratory birds would be less than significant.

As discussed in Section 4.5, Cultural Resources, potential impacts to unknown cultural resources and human remains from implementation of the Project would be less than significant with implementation of RR CUL-1 and with implementation of MM CUL-1. Therefore, with the incorporation of identified RRs and MMs, the Project does not have the potential to restrict the range of a rare or endangered plant or animal or eliminate important

examples of the major periods of California history or prehistory. Impacts would be less than significant with mitigation incorporated.

Further, as discussed in Section 4.18, Tribal Cultural Resources, potential impacts to tribal cultural resources would be less than significant with incorporation of the voluntary and agreed upon mitigation measures by the City and Kizh Nation. Although a significant impact on known tribal cultural resources has not been identified, the City would voluntarily implement MMs TCR-1, TCR 2, and TCR-3, which recognize the Kizh Nations' concerns during construction activities; would require the presence of a Native American monitor to observe ground disturbing activity; and provide the discovery protocol upon unanticipated discovery of a TCR for non-funerary/ceremonial and for funerary or ceremonial object. Therefore, with incorporation of MMs TCR 1, TCR-2 and TCR-3, the Project does not have the potential to restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory. Impacts would be less than significant with mitigation incorporated.

***b) Have impacts that are individually limited, but cumulatively considerable? ('Cumulatively considerable' means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)***

**Less than Significant Impact.** The proposed Project would result in potentially significant project-level impacts involving cultural resources and geology and soils. However, feasible mitigation measures have been identified that would reduce these impacts to less than significant levels. All reasonably foreseeable future development in the City would be subject to the same land use and environmental regulations that have been described throughout this document. Furthermore, all development projects are guided by the policies identified in the City's General Plan and by the regulations established in the SAMC. Therefore, compliance with applicable land use and environmental regulations would ensure that environmental effects associated with the proposed Project would not combine with effects from reasonably foreseeable future development in the City to cause cumulatively considerable significant impacts. Cumulative impacts would therefore be less than significant with mitigation incorporated. No further mitigation is required.

***c) Have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?***

**Less Than Significant Impact**. As detailed throughout this IS/MND, the proposed Project would not exceed any significance thresholds or result in significant impacts in the environmental categories typically associated with indirect or direct effects to human beings, such as aesthetics, air quality, hazards and hazardous materials, noise, public services, or transportation. As such, impacts would be less than significant, and no mitigation is required.

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# APPENDIX A

# AIR QUALITY AND GREENHOUSE GAS TECHNICAL REPORT

# McDonalds (Santa Ana) Detailed Report

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6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field | Value |
|---|---|
| Project Name | McDonalds (Santa Ana) |
| Construction Start Date | 6/1/2024 |
| Operational Year | 2024 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.50 |
| Precipitation (days) | 18.6 |
| Location | 33.7675262268407, -117.83691673218678 |
| County | Orange |
| City | Santa Ana |
| Air District | South Coast AQMD |
| Air Basin | South Coast |
| TAZ | 5960 |
| EDFZ | 7 |
| Electric Utility | Southern California Edison |
| Gas Utility | Southern California Gas |
| App Version | 2022.1.1.17 |

## 1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | 3.98 | 1000sqft | 0.09 | 3,975 | 8,180 | — | — | — |
| Parking Lot | 32.0 | Space | 0.54 | 0.00 | 0.00 | — | — | — |

## 1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

# 2. Emissions Summary

## 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.52 | 5.35 | 6.47 | 0.01 | 0.22 | 0.35 | 0.44 | 0.21 | 0.07 | 0.21 | 1,288 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 7.58 | 5.35 | 6.45 | 0.01 | 0.22 | 0.13 | 0.33 | 0.21 | 0.03 | 0.21 | 1,286 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.26 | 1.31 | 1.69 | < 0.005 | 0.05 | 0.03 | 0.08 | 0.05 | 0.01 | 0.06 | 326 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.05 | 0.24 | 0.31 | < 0.005 | 0.01 | 0.01 | 0.01 | 0.01 | < 0.005 | 0.01 | 54.0 |

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2024 | 0.52 | 5.35 | 6.47 | 0.01 | 0.22 | 0.35 | 0.44 | 0.21 | 0.07 | 0.21 | 1,288 |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 7.58 | 5.35 | 6.45 | 0.01 | 0.22 | 0.13 | 0.33 | 0.21 | 0.03 | 0.21 | 1,286 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.26 | 1.31 | 1.69 | < 0.005 | 0.05 | 0.03 | 0.08 | 0.05 | 0.01 | 0.06 | 326 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| 2024 | 0.05 | 0.24 | 0.31 | < 0.005 | 0.01 | 0.01 | 0.01 | 0.01 | < 0.005 | 0.01 | 54.0 |

## 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Un/Mit. | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.37 | 5.90 | 35.7 | 0.10 | 0.27 | 7.17 | 7.44 | 0.27 | 1.82 | 2.09 | 15,157 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 4.29 | 6.16 | 33.4 | 0.09 | 0.27 | 7.17 | 7.44 | 0.27 | 1.82 | 2.09 | 14,816 |
| Average Daily (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 3.48 | 5.53 | 27.8 | 0.08 | 0.26 | 5.65 | 5.91 | 0.26 | 1.44 | 1.69 | 13,310 |
| Annual (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Unmit. | 0.63 | 1.01 | 5.08 | 0.01 | 0.05 | 1.03 | 1.08 | 0.05 | 0.26 | 0.31 | 2,204 |

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Sector | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mobile | 4.08 | 3.00 | 33.1 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 8,204 |
| Area | 0.13 | < 0.005 | 0.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.71 |
| Energy | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 6,849 |
| Water | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Total | 4.37 | 5.90 | 35.7 | 0.10 | 0.27 | 7.17 | 7.44 | 0.27 | 1.82 | 2.09 | 15,157 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 4.03 | 3.26 | 30.9 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 7,864 |
| Area | 0.10 | — | — | — | — | — | — | — | — | — | — |
| Energy | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 6,849 |
| Water | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Total | 4.29 | 6.16 | 33.4 | 0.09 | 0.27 | 7.17 | 7.44 | 0.27 | 1.82 | 2.09 | 14,816 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 3.20 | 2.63 | 25.3 | 0.06 | 0.04 | 5.65 | 5.69 | 0.04 | 1.44 | 1.47 | 6,357 |
| Area | 0.12 | < 0.005 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.49 |
| Energy | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 6,849 |
| Water | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Waste | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Total | 3.48 | 5.53 | 27.8 | 0.08 | 0.26 | 5.65 | 5.91 | 0.26 | 1.44 | 1.69 | 13,310 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Mobile | 0.58 | 0.48 | 4.61 | 0.01 | 0.01 | 1.03 | 1.04 | 0.01 | 0.26 | 0.27 | 1,053 |
| Area | 0.02 | < 0.005 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.08 |
| Energy | 0.03 | 0.53 | 0.45 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 1,134 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Water | — | — | — | — | — | — | — | — | — | — | 1.78 |
| Waste | — | — | — | — | — | — | — | — | — | — | 14.3 |
| Refrig. | — | — | — | — | — | — | — | — | — | — | 1.03 |
| Total | 0.63 | 1.01 | 5.08 | 0.01 | 0.05 | 1.03 | 1.08 | 0.05 | 0.26 | 0.31 | 2,204 |

# 3. Construction Emissions Details

## 3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.23 | 2.62 | 4.03 | 0.01 | 0.08 | — | 0.08 | 0.08 | — | 0.08 | 633 |
| Demolition | — | — | — | — | — | 0.19 | 0.19 | — | 0.03 | 0.03 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.11 | 0.18 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 27.8 |
| Demolition | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 4.60 |
| Demolition | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.45 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.01 | 0.31 | 0.13 | < 0.005 | < 0.005 | 0.06 | 0.07 | < 0.005 | 0.02 | 0.02 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |

## 3.3. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 1.20 | 1.92 | < 0.005 | 0.05 | — | 0.05 | 0.05 | — | 0.05 | 291 |
| Dust From Material Movement | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.03 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 4.79 |
| Dust From Material Movement | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.79 |
| Dust From Material Movement | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.15 | 0.00 | 0.00 | 0.03 | 0.03 | 0.00 | 0.01 | 0.01 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.01 | 0.32 | 0.14 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.02 | 0.02 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |

## 3.5. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.27 | 2.78 | 4.20 | 0.01 | 0.10 | — | 0.10 | 0.09 | — | 0.09 | 643 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.08 | 0.13 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 19.4 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.21 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.03 | 0.03 | 0.45 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Worker | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

## 3.7. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.51 | 5.32 | 6.35 | 0.01 | 0.22 | — | 0.22 | 0.21 | — | 0.21 | 1,243 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.51 | 5.32 | 6.35 | 0.01 | 0.22 | — | 0.22 | 0.21 | — | 0.21 | 1,243 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.09 | 0.89 | 1.06 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | 208 |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.16 | 0.19 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 34.4 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.10 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.09 | 0.00 | 0.00 | 0.02 | 0.02 | 0.00 | 0.01 | 0.01 | — |
| Vendor | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

## 3.9. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Off-Road Equipment | 0.52 | 3.73 | 4.38 | 0.01 | 0.20 | — | 0.20 | 0.18 | — | 0.18 | 616 |
| Paving | 0.25 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.11 | 0.13 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | 18.6 |
| Paving | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 3.07 |
| Paving | < 0.005 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.04 | 0.04 | 0.52 | 0.00 | 0.00 | 0.13 | 0.13 | 0.00 | 0.03 | 0.03 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

## 3.11. Architectural Coating (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Onsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.35 | 3.48 | 5.28 | 0.01 | 0.12 | — | 0.12 | 0.11 | — | 0.11 | 793 |
| Architectural Coatings | 7.23 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.06 | 0.09 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 13.0 |
| Architectural Coatings | 0.12 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | 0.01 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 2.16 |
| Architectural Coatings | 0.02 | — | — | — | — | — | — | — | — | — | — |
| Onsite truck | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Offsite | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — |
| Vendor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |

# 4. Operations Emissions Details

## 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 4.08 | 3.00 | 33.1 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 8,204 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 4.08 | 3.00 | 33.1 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 8,204 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 4.03 | 3.26 | 30.9 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 7,864 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 4.03 | 3.26 | 30.9 | 0.08 | 0.05 | 7.17 | 7.22 | 0.05 | 1.82 | 1.87 | 7,864 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 0.58 | 0.48 | 4.61 | 0.01 | 0.01 | 1.03 | 1.04 | 0.01 | 0.26 | 0.27 | 1,053 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 0.58 | 0.48 | 4.61 | 0.01 | 0.01 | 1.03 | 1.04 | 0.01 | 0.26 | 0.27 | 1,053 |

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3,375 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 3,375 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 3,375 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Total | — | — | — | — | — | — | — | — | — | — | 3,375 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 559 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 559 |

## 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 3,474 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 3,474 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 3,474 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.16 | 2.90 | 2.44 | 0.02 | 0.22 | — | 0.22 | 0.22 | — | 0.22 | 3,474 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | 0.03 | 0.53 | 0.45 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 575 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | — | 0.00 | 0.00 |
| Total | 0.03 | 0.53 | 0.45 | < 0.005 | 0.04 | — | 0.04 | 0.04 | — | 0.04 | 575 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Source | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | 0.03 | < 0.005 | 0.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.71 |
| Total | 0.13 | < 0.005 | 0.17 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.71 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.09 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | 0.01 | — | — | — | — | — | — | — | — | — | — |
| Total | 0.10 | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Consumer Products | 0.02 | — | — | — | — | — | — | — | — | — | — |
| Architectural Coatings | < 0.005 | — | — | — | — | — | — | — | — | — | — |
| Landscape Equipment | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.08 |
| Total | 0.02 | < 0.005 | 0.02 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | 0.08 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Total | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Total | — | — | — | — | — | — | — | — | — | — | 10.7 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.78 |
| Total | — | — | — | — | — | — | — | — | — | — | 1.78 |

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 86.3 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 14.3 |
| Parking Lot | — | — | — | — | — | — | — | — | — | — | 0.00 |
| Total | — | — | — | — | — | — | — | — | — | — | 14.3 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Total | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Total | — | — | — | — | — | — | — | — | — | — | 6.21 |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Fast Food Restaurant with Drive Thru | — | — | — | — | — | — | — | — | — | — | 1.03 |
| Total | — | — | — | — | — | — | — | — | — | — | 1.03 |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Equipment Type | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.10. Soil Carbon Accumulation By Vegetation Type

### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Vegetation | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Land Use | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Total | — | — | — | — | — | — | — | — | — | — | — |

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Species | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequestered | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — |
| Annual | — | — | — | — | — | — | — | — | — | — | — |
| Avoided | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| Sequestered | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| Removed | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal | — | — | — | — | — | — | — | — | — | — | — |
| — | — | — | — | — | — | — | — | — | — | — | — |

# 5. Activity Data

## 5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Demolition | Demolition | 6/3/2024 | 6/24/2024 | 5.00 | 16.0 | — |
| Site Preparation | Site Preparation | 6/25/2024 | 7/2/2024 | 5.00 | 6.00 | — |
| Grading | Grading | 7/3/2024 | 7/17/2024 | 5.00 | 11.0 | — |
| Building Construction | Building Construction | 7/18/2024 | 10/10/2024 | 5.00 | 61.0 | — |
| Paving | Paving | 10/11/2024 | 10/25/2024 | 5.00 | 11.0 | — |
| Architectural Coating | Architectural Coating | 10/29/2024 | 11/5/2024 | 5.00 | 6.00 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|---|
| Demolition | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Demolition | Skid Steer Loaders | Diesel | Average | 2.00 | 8.00 | 71.0 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 7.00 | 84.0 | 0.37 |
| Grading | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Grading | Skid Steer Loaders | Diesel | Average | 1.00 | 8.00 | 71.0 | 0.37 |
| Building Construction | Cranes | Diesel | Average | 1.00 | 4.00 | 367 | 0.29 |
| Building Construction | Forklifts | Diesel | Average | 3.00 | 6.00 | 82.0 | 0.20 |
| Building Construction | Cement and Mortar Mixers | Diesel | Average | 1.00 | 6.00 | 10.0 | 0.56 |
| Building Construction | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 1.00 | 6.00 | 10.0 | 0.56 |
| Paving | Pavers | Diesel | Average | 1.00 | 7.00 | 81.0 | 0.42 |
| Paving | Rollers | Diesel | Average | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving | Sweepers/Scrubbers | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.46 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Architectural Coating | Air Compressors | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Architectural Coating | Paving Equipment | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Architectural Coating | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|---|---|---|---|---|
| Demolition | — | — | — | — |
| Demolition | Worker | 7.50 | 18.5 | LDA,LDT1,LDT2 |
| Demolition | Vendor | — | 10.2 | HHDT,MHDT |
| Demolition | Hauling | 3.50 | 20.0 | HHDT |
| Demolition | Onsite truck | — | — | HHDT |
| Site Preparation | — | — | — | — |
| Site Preparation | Worker | 2.50 | 18.5 | LDA,LDT1,LDT2 |
| Site Preparation | Vendor | — | 10.2 | HHDT,MHDT |
| Site Preparation | Hauling | 3.67 | 20.0 | HHDT |
| Site Preparation | Onsite truck | — | — | HHDT |
| Grading | — | — | — | — |
| Grading | Worker | 7.50 | 18.5 | LDA,LDT1,LDT2 |
| Grading | Vendor | — | 10.2 | HHDT,MHDT |
| Grading | Hauling | 0.00 | 20.0 | HHDT |
| Grading | Onsite truck | — | — | HHDT |
| Building Construction | — | — | — | — |
| Building Construction | Worker | 1.67 | 18.5 | LDA,LDT1,LDT2 |
| Building Construction | Vendor | 0.65 | 10.2 | HHDT,MHDT |
| Building Construction | Hauling | 0.00 | 20.0 | HHDT |

| | | | | |
|---|---|---|---|---|
| Building Construction | Onsite truck | — | — | HHDT |
| Paving | — | — | — | — |
| Paving | Worker | 10.0 | 18.5 | LDA,LDT1,LDT2 |
| Paving | Vendor | — | 10.2 | HHDT,MHDT |
| Paving | Hauling | 0.00 | 20.0 | HHDT |
| Paving | Onsite truck | — | — | HHDT |
| Architectural Coating | — | — | — | — |
| Architectural Coating | Worker | 0.33 | 18.5 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor | — | 10.2 | HHDT,MHDT |
| Architectural Coating | Hauling | 0.00 | 20.0 | HHDT |
| Architectural Coating | Onsite truck | — | — | HHDT |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

| Control Strategies Applied | PM10 Reduction | PM2.5 Reduction |
|---|---|---|
| Water unpaved roads twice daily | 55% | 55% |

## 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|---|
| Architectural Coating | 0.00 | 0.00 | 5,963 | 1,988 | 1,411 |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (Building Square Footage) | Acres Paved (acres) |
|---|---|---|---|---|---|
| Demolition | 0.00 | 0.00 | 0.00 | 4,800 | — |
| Site Preparation | — | 172 | 0.00 | 0.00 | — |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 1.04 |

### 5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|---|---|---|---|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

## 5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|---|---|---|
| Fast Food Restaurant with Drive Thru | 0.00 | 0% |
| — | 0.50 | 100% |
| Parking Lot | 0.54 | 100% |

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|---|---|---|---|---|
| 2024 | 0.00 | 349 | 0.03 | < 0.005 |

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

| Land Use Type | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | 930 | 1,217 | 933 | 354,563 | 7,743 | 10,130 | 7,770 | 2,952,024 |
| Parking Lot | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|---|---|---|---|---|
| 0 | 0.00 | 5,963 | 1,988 | 1,411 |

### 5.10.3. Landscape Equipment

| Season | Unit | Value |
|---|---|---|
| Snow Days | day/yr | 0.00 |
| Summer Days | day/yr | 250 |

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

| Land Use | Electricity (kWh/yr) | CO2 | CH4 | N2O | Natural Gas (kBTU/yr) |
|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | 3,512,760 | 349 | 0.0330 | 0.0040 | 10,809,840 |
| Parking Lot | 0.00 | 349 | 0.0330 | 0.0040 | 0.00 |

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

| Land Use | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|---|---|---|
| Fast Food Restaurant with Drive Thru | 693,500 | 97,090 |

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

| Land Use | Waste (ton/year) | Cogeneration (kWh/year) |
|---|---|---|
| Fast Food Restaurant with Drive Thru | 45.8 | — |
| Parking Lot | 0.00 | — |

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

| Land Use Type | Equipment Type | Refrigerant | GWP | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thru | Household refrigerators and/or freezers | R-134a | 1,430 | 0.00 | 0.60 | 0.00 | 1.00 |
| Fast Food Restaurant with Drive Thru | Other commercial A/C and heat pumps | R-410A | 2,088 | 1.80 | 4.00 | 4.00 | 18.0 |
| Fast Food Restaurant with Drive Thru | Walk-in refrigerators and freezers | R-404A | 3,922 | < 0.005 | 7.50 | 7.50 | 20.0 |

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

| Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---|---|---|---|---|---|---|

### 5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|---|---|---|---|---|---|

## 5.17. User Defined

| Equipment Type | Fuel Type |
|---|---|
| — | — |

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|---|---|---|---|

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|---|---|---|

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|---|---|---|---|

# 6. Climate Risk Detailed Report

## 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

| Climate Hazard | Result for Project Location | Unit |
|---|---|---|
| Temperature and Extreme Heat | 10.5 | annual days of extreme heat |
| Extreme Precipitation | 4.00 | annual days with precipitation above 20 mm |
| Sea Level Rise | 0.00 | meters of inundation depth |
| Wildfire | 0.00 | annual hectares burned |

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 1 | 0 | 0 | N/A |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 0 | 0 | N/A |

| | | | | |
|---|---|---|---|---|
| Wildfire | 1 | 0 | 0 | N/A |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 0 | 0 | 0 | N/A |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

| Climate Hazard | Exposure Score | Sensitivity Score | Adaptive Capacity Score | Vulnerability Score |
|---|---|---|---|---|
| Temperature and Extreme Heat | 1 | 1 | 1 | 2 |
| Extreme Precipitation | N/A | N/A | N/A | N/A |
| Sea Level Rise | 1 | 1 | 1 | 2 |
| Wildfire | 1 | 1 | 1 | 2 |
| Flooding | N/A | N/A | N/A | N/A |
| Drought | N/A | N/A | N/A | N/A |
| Snowpack Reduction | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 1 | 1 | 1 | 2 |

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Exposure Indicators | — |
| AQ-Ozone | 57.0 |
| AQ-PM | 70.2 |
| AQ-DPM | 74.2 |
| Drinking Water | 46.5 |
| Lead Risk Housing | 48.9 |
| Pesticides | 14.0 |
| Toxic Releases | 88.3 |
| Traffic | 55.4 |
| Effect Indicators | — |
| CleanUp Sites | 44.3 |
| Groundwater | 0.00 |
| Haz Waste Facilities/Generators | 72.0 |
| Impaired Water Bodies | 0.00 |
| Solid Waste | 37.6 |
| Sensitive Population | — |
| Asthma | 32.6 |
| Cardio-vascular | 24.4 |
| Low Birth Weights | 87.4 |
| Socioeconomic Factor Indicators | — |
| Education | 62.0 |
| Housing | 49.0 |
| Linguistic | 58.2 |
| Poverty | 35.6 |

| | |
|---|---|
| Unemployment | 21.1 |

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

| Indicator | Result for Project Census Tract |
|---|---|
| Economic | — |
| Above Poverty | 40.60053895 |
| Employed | 97.08712948 |
| Median HI | 35.36507122 |
| Education | — |
| Bachelor's or higher | 38.95803927 |
| High school enrollment | 100 |
| Preschool enrollment | 68.20223277 |
| Transportation | — |
| Auto Access | 80.12318748 |
| Active commuting | 47.68381881 |
| Social | — |
| 2-parent households | 31.92608751 |
| Voting | 34.62081355 |
| Neighborhood | — |
| Alcohol availability | 32.24688823 |
| Park access | 51.61041961 |
| Retail density | 85.57679969 |
| Supermarket access | 60.29770307 |
| Tree canopy | 38.22661363 |
| Housing | — |
| Homeownership | 29.911459 |

| | |
|---|---|
| Housing habitability | 23.3029642 |
| Low-inc homeowner severe housing cost burden | 28.38444758 |
| Low-inc renter severe housing cost burden | 56.14012575 |
| Uncrowded housing | 20.03079687 |
| Health Outcomes | — |
| Insured adults | 32.50352881 |
| Arthritis | 65.9 |
| Asthma ER Admissions | 62.2 |
| High Blood Pressure | 79.0 |
| Cancer (excluding skin) | 47.4 |
| Asthma | 55.1 |
| Coronary Heart Disease | 54.4 |
| Chronic Obstructive Pulmonary Disease | 56.7 |
| Diagnosed Diabetes | 57.0 |
| Life Expectancy at Birth | 51.3 |
| Cognitively Disabled | 76.7 |
| Physically  Disabled | 83.0 |
| Heart Attack ER Admissions | 74.2 |
| Mental Health Not Good | 49.5 |
| Chronic Kidney Disease | 55.3 |
| Obesity | 56.2 |
| Pedestrian Injuries | 43.8 |
| Physical Health Not Good | 49.9 |
| Stroke | 58.2 |
| Health Risk Behaviors | — |
| Binge Drinking | 15.4 |
| Current Smoker | 55.2 |

| | |
|---|---|
| No Leisure Time for Physical Activity | 43.7 |
| Climate Change Exposures | — |
| Wildfire Risk | 0.0 |
| SLR Inundation Area | 0.0 |
| Children | 72.4 |
| Elderly | 55.1 |
| English Speaking | 22.8 |
| Foreign-born | 65.8 |
| Outdoor Workers | 81.6 |
| Climate Change Adaptive Capacity | — |
| Impervious Surface Cover | 41.0 |
| Traffic Density | 63.8 |
| Traffic Access | 23.0 |
| Other Indices | — |
| Hardship | 62.7 |
| Other Decision Support | — |
| 2016 Voting | 65.3 |

## 7.3. Overall Health & Equity Scores

| Metric | Result for Project Census Tract |
|---|---|
| CalEnviroScreen 4.0 Score for Project Location (a) | 56.0 |
| Healthy Places Index Score for Project Location (b) | 53.0 |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535) | No |
| Project Located in a Low-Income Community (Assembly Bill 1550) | Yes |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No |

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

# 8. User Changes to Default Data

| Screen | Justification |
|---|---|
| Land Use | Data provided by applicant |
| Construction: Paving | Based on Project Site Plan |
| Construction: Construction Phases | Data Provided by applicant |
| Construction: Off-Road Equipment | Per project (data needs) |
| Construction: Dust From Material Movement | Based on data request for developer |
| Operations: Vehicle Data | Based on Project Specific Traffic Study |
| Operations: Energy Use | Fast Food land use inclusive of total energy consumption |
| Operations: Water and Waste Water | Fast Food Inclusive of all water use |

# APPENDIX B

# CULTURAL RESOURCES RECORDS SEARCH

# Report List

**3SAN050100**

| Report No. | Other IDs | Year | Author(s) | Title | Affiliation | Resources |
|---|---|---|---|---|---|---|
| OR-03096 | Cellular - | 2001 | Thane, Michael D. | Review of Requirements Under the National Historic Preservation Act of 1966 Proposed Brannigan Tower Site 1440 E. Santa Clara Avenue Santa Ana, Orange County, California 92705 Law Project 70151-1-0190 | Law Engineering and Environmental Services, Inc. | |
| OR-03529 | Paleo - | 2008 | Padon, Beth and Judith Marvin | Cultural Study Report Empire Homes Project (Tentative Tract Map 17231), 1584 E. Santa Clara Avenue, Santa Ana, Orange County, California | Discovery Works, Inc. | 30-179880 |
| OR-04071 | Cellular - | 2010 | Bonner, Diane F. | Records Search and Site Visit Results for the Proposed T-Mobile Site LA02933C (Edits Mini-Mart), located at 2151 East Santa Clara Avenue, Santa Ana, Orange County, California | W.H. Bonner Associates | |

# Resource List

**3SAN050100**

| Primary No. | Trinomial | Other IDs | Type | Age | Attribute codes | Recorded by | Reports |
|---|---|---|---|---|---|---|---|
| P-30-179880 | | Resource Name - Sexlinger Residence | Building | Historic | HP02; HP33 | 2008 (Marvin, Judith, Foothill Resources, Ltd.) | OR-03529 |

# NATIVE AMERICAN HERITAGE COMMISSION

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1550 Harbor Boulevard
Suite 100
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California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

December 1, 2023

Charles Cisneros
Psomas

Via Email to: charles.cisneros@psomas.com

**Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, 3SAN050100 Project, Orange County**

Dear Mr. Cisneros:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

*Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.*

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

   - Any report that may contain site forms, site significance, and suggested mitigation measures.

     All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green
*Cultural Resources Analyst*

Attachment

Natural History Museum
of Los Angeles County
900 Exposition Boulevard
Los Angeles, CA 90007

tel 213.763.DINO
www.nhm.org

Research & Collections

e-mail: paleorecords@nhm.org

August 13, 2023

Psomas

Attn: Charles Cisneros

re: Paleontological resources for the McDonald's Project (3SAN050100)

Dear Charles:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the McDonald's project area as outlined on the portion of the Orange USGS topographic quadrangle map that you sent to me via e-mail on August 1, 2023. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities nearby from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

| Locality Number | Location | Formation | Taxa | Depth |
|---|---|---|---|---|
| LACM VP 1652 | Rio Vista Avenue south of Lincoln Avenue | Alluvium (Pleistocene) | Sheep (*Ovis*) | Unknown (excavations for housing project) |
| LACM VP 7867 | former El Toro Marine Base | Unknown formation (Pleistocene) | Rodent (rodentia) | 25 feet bgs |
| LACM VP 7712 - 7713 | City of Irvine south of I-405 & northeast of Sand Canyon Reservoir | Vaqueros Formation (fine-grained siltstone) | Dugong clade (Dugongidae); Sloth (Mylodontidae?) | Unknown |
| LACM VP 6370 | near the intersection of Superior Avenue & Pacific Coast Highway; Newport Beach | Terrace deposits (Pleistocene, silty sandstones) | Horse (*Equus*), other unspecified mammals; Invertebrates: clam (*Tivela*, *Donax*, *Lucinisca*), scaphopod (*Dentalum*, *Antalis*), marine gastropods (*Glossaulax*, *Chlorostoma*) | Unknown (found during grading for parking lot construction) |

*VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface*

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,

Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

# APPENDIX C

# HISTORIC BUILT ENVIRONMENT ASSESSMENT

August 21 2023

Charles Cisneros, RPA
Senior Archaeologist
Psomas
Email: charles.cisneros@psomas.com

**RE: Historic Built Environment Assessment for the 2101-2019 East Santa Clara Avenue Project, City of Santa Ana, California**

Dear Mr. Cisneros:

South Environmental was retained by Psomas to prepare an historic built environment assessment report in support of the 2101-2109 East Santa Clara Avenue Project (project) in the City of Santa Ana, California. The purpose of this report is to determine if the proposed project will result in impacts to historic built environment resources located within the project site. This report was prepared in conformance of the requirements of the California Environmental Quality Act (CEQA) Guidelines § 15064.5 for historical resources.

The project site comprises two parcels that each contain a single-family residence with a detached garage that were constructed over 45 years ago. In accordance with the requirements of CEQA Guidelines §15064.5 for historical resources, the properties were recorded and evaluated for historical significance and integrity on the appropriate set of State of California Department of Parks and Recreation Series 523 Forms (DPR forms, Attachment A).

This significance evaluation and associated impacts assessment was prepared by Architectural Historians Marlena Krcelich, BA and Principal Architectural Historian Sarah Corder, MFA who meet the Secretary of the Interior's Professional Qualification Standards for architectural history and history. Resumes for Ms. Krcelich and Ms. Corder are provided in Attachment B.

# Introduction

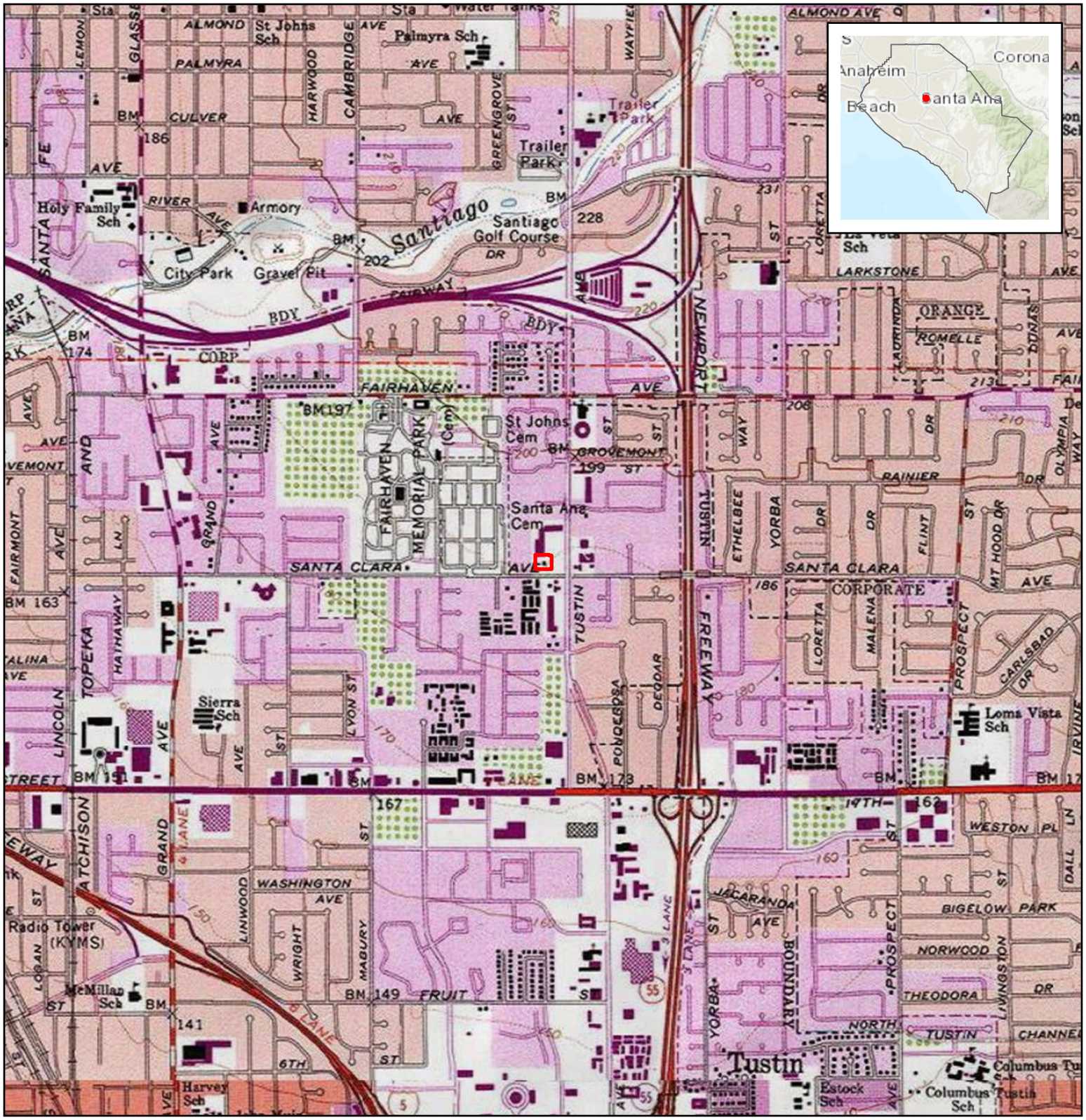
## Project Description

The proposed project involves the redevelopment of the 36,538-square-foot (sf) site with a McDonald's drive-through fast food facility. The site is currently developed with the two single-family residences with detached garages and associated improvements. The eastern and western residences are approximately 3,000 sf and 1,800 sf in size, respectively. The proposed project will develop the site as a 3,975-sf McDonald's fast-food restaurant with a drive-through lane and associated parking and landscaping. To accommodate development of the proposed project, the two existing single-family residential units with detached garages will be demolished. The project site has a General Plan

Land Use designation of General Commercial (GC) and Zoning designation of General Agricultural (A1). A zone change is required to designate the site as Arterial Commercial (C5). Also, a Conditional Use Permit is required to allow the operation of the proposed drive-through lane.

## Project Location

The project site consists of two addresses: 2101 East Santa Clara Avenue (APN 396-261-26) and 2109 East Santa Clara Ave Avenue (APN 396-261-38). The project site is located on the north side of East Santa Clara Avenue just west of the intersection with North Tustin Avenue (Figure 1). It is bound to the north by Stater Bros. market, to the west by a parking lot, and to the east by a fast-food drive-through restaurant (Figure 2).




Source: ESRI USA Topo Maps and World Topo Map 2023

2101-2109 East Santa Clara Avenue Project

# Figure 1. Project Location Map

Project Site

Project Site is within City of Santa Ana, California, in Orange County on the USGS Orange 7.5-minute quadrangle map in Section 5 of Township 05 South and Range 09 West

Center Coordinate (Decimal Degrees):
Latitude: 33.7675083N Longitude: -117.8368506W

0 1,000 2,000 Feet

Scale: 1:24,000

N

SOUTH ENVIRONMENTAL

Source: Bing Aerial Imagery 2023

2101-2109 East Santa Clara Avenue Project

# Figure 2. Project Site Detail

0 40 80 Feet

Scale: 1:800

N

Project Site

(#) Buildings

## Buildings

1. Building 1 – 2101 East Santa Clara Avenue
2. Building 2 – 2109 East Santa Clara Avenue

SOUTH ENVIRONMENTAL

## Regulatory Setting

### California Register of Historical Resources

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (California Public Resources Code Section 5020.1(j)). In 1992, the California legislature established the CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (California Public Resources Code Section 5024.1(a)). The criteria for listing resources on the CRHR (enumerated below) were expressly developed to be in accordance with previously established criteria developed for listing in the National Register of Historic Places (NRHP). According to California Public Resources Code Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria:

(1) Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.

(2) Is associated with the lives of persons important in our past.

(3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

(4) Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR 4852(d)(2)).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

### California Environmental Quality Act

CEQA requires a lead agency determine whether a project may have a significant effect on historical resources (Public Resources Code [PRC], Section 21084.1). A historical resource is a resource listed in,

or determined to be eligible for listing, in the CRHR, a resource included in a local register of historical resources or any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant (State CEQA Guidelines, Section 15064.5[a][1-3]).

Under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(b).) If a site is either listed or eligible for listing in the CRHR, or if it is included in a local register of historic resources or identified as significant in a historical resources survey (meeting the requirements of California Public Resources Code Section 5024.1(q)), it is a "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (California Public Resources Code Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines Section 15064.5(b)(1); California Public Resources Code Section 5020.1(q)). In turn, CEQA Guidelines section 15064.5(b)(2) states the significance of an historical resource is materially impaired when a project:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources; or

2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change

in the significance of a historical resource such that the resource's historical significance is materially impaired.

**City of Santa Ana Municipal Code Chapter 30: Places of Historical and Architectural Significance.**

Sec. 30-2 – Criteria for Selection

(a) Any person or group may request a building, or part thereof, structure, object or site, to be designated to be included on the city register of historical properties (called "register" in this section). The applicant must submit documentation that demonstrates how the nominated building, structure, object or site satisfies the criteria for designation. A building, structure, object, or site may be designated for inclusion on the register if the building, structure, object or site is fifty (50) or more years old and if the commission finds that one (1) or more of the following conditions are met:

(1) Buildings, structures or objects with distinguishing characteristics of an architectural style or period, that exemplify a particular architectural style or design features;

(2) Works of notable architects, builders, or designers whose style influenced architectural development;

(3) Rare buildings, structures, or objects or original designs;

(4) Buildings, structures, objects or sites of historical significance which include places:

a. Where important events occurred;

b. Associated with famous people, original settlers, renowned organizations and businesses;

c. Which were originally present when the city was founded; or

d. That served as important centers for political, social, economic, or cultural activity.

(5) Sites of archaeological importance;

(6) Buildings or structures that were connected with a business or use which was once common, but is now rare.

(b) The owner of a property(s) must be notified of its nomination upon receipt of an application by the planning and building agency. Upon adoption and placement of the property on the register, the resolution of designation shall be recorded with the county recorder's office pursuant to California Public Resources Code section 5029, as it may be amended from time to time.

(Ord. No. NS-1519, § 1, 3-17-80; Ord. No. NS-2338, § 3, 12-1-97; Ord. No. NS-2455, § 4, 12-4-00; Ord. No. NS-2521, § 5, 1-21-03)

Sec. 30-2.2 – Categorization

The historic resources commission shall, by resolution and at a duly noticed public hearing, place all buildings, structures, objects, or sites on the city register of historical properties in one (1) of the following categories based upon the criteria for each category:

(1) Landmark category.

a. The building, structure, object or site is on the national register or appears to be eligible to be placed on the register; or

b. The building, structure, object or site is on the state register or appears to be eligible to be placed on the register; or

c. The building, structure, object or site has an historical/cultural significance to the city; or

d. The building, structure, object or site has a unique architectural significance.

(2 ) Key category.

a. The building, structure, object or site has a distinctive architectural style and quality; or

b. The building, structure, object or site is characteristic of a significant period in the history of the city; or

c. The building, structure, object or site is associated with a significant person or event in the city.

(3) Contributive category. The building, structure, object or site contributes to the overall character and history of a neighborhood or district and is a good example of period architecture.

The historic resources commission may after a duly noticed public hearing revise, or modify any such categorization upon reconsideration of the historical or architectural importance of the places therein described.

(Ord. No. NS-2417, § 1, 1-18-00; Ord. No. NS-2455, § 6, 12-4-00; Ord. No. NS-2521, § 7, 1-21-03)

# Methods

## Background Research

Background research was conducted on the project site to establish a thorough and accurate historic context, and to confirm the development history of the property (see DPR form set in Attachment A). This included a review of all available building permits on file with the City of Santa Ana; historical newspapers covering Santa Ana and Orange County via newspapers.com; historic aerial photographs of the project site via National Environmental Title Reference (NETR) and the University of Santa Barbara FrameFinder Maps (FrameFinder); and applicable primary and secondary sources on file with local libraries and repositories.

## Survey

South Environmental Architectural Historian Marlena Krcelich, BA completed an intensive-level pedestrian survey of the project site on August 8, 2023. The built environment survey entailed walking the site and documenting the exterior of the properties with notes and photographs.

# Findings

Two built environment resources over 45 years old were identified within the project site: 2101 and 2109 East Santa Clara Avenue. The properties were recorded and evaluated for historical significance on the appropriate set of DPR Forms in consideration of CRHR and City designation criteria and integrity requirements (Attachment A). Both properties were found not eligible under all state and local designation criteria due to a lack of significant historical associations and architectural merit.

No historical resources were identified within the project site as a result of this study. Therefore, with respect to built environment resources, the proposed project will have a less than significant impact on historical resources under CEQA.

Should you have any questions regarding this report or its findings, please do not hesitate to contact us at scorder@southenvironmental.com or (760) 334-3355.

Sincerely,

Sarah Corder, MFA
Principal Architectural Historian

# Attachments

A. DPR Form Set for:

   a. 2101 East Santa Clara Avenue

   b. 2109 East Santa Clara Avenue

B. Resumes

**ATTACHMENT A.**

**DPR Form Sets for 2101 and 2109 East Santa Clara Avenue**

**State of California — The Resources Agency**
**DEPARTMENT OF PARKS AND RECREATION**

# PRIMARY RECORD

Primary #
HRI #
Trinomial
**NRHP Status Code** 6Z

Other Listings
Review Code Reviewer Date

**Page** 1 **of** 18 ***Resource Name or #:** (Assigned by recorder) 2101 East Santa Clara Avenue

**P1. Other Identifier:**

***P2. Location:** ☐ **Not for Publication** ■ Unrestricted

***a. County** Orange **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Santa Clara **Date** 2023 **T** 05 S ; **R** 09 W ; ☐ **of** ☐ **of Sec** 5; SB **B.M.**

c. Address 2101 E. Santa Clara Ave City Santa Ana Zip 92705

d. UTM: Zone 11S, 422486.27 mE/ 3736694.35 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

APN 396-261-26. The subject property is located on the north side of East Santa Clara Avenue. It is bound to the north by Stater Bros. market, to the west by a parking lot, and to the east by a single-family home.

***P3a. Description:**

The subject property is a one-story single-family house with a detached garage. The house has an irregularly shaped floor plan, and the exterior is clad in stucco. It has a flat roof with a parapet wall and a shed roof clad in red clay tiles over the front porch (see Continuation Sheet).

***P3b. Resource Attributes:** (List attributes and codes) HP2. Single family property

***P4.Resources Present:** ■ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Primary south elevation, view to northwest (South Environmental 2023)

***P6. Date Constructed/Age and Source:** ■ Historic ☐ Prehistoric ☐ Both
Unknown, moved to subject property in 1967 (City of Santa Ana, Permit No. 16119)

***P7. Owner and Address:**
SRP/Stater Bros LLC
3161 Michelson Dr
Suite 100
Irvine, CA 92612

***P8. Recorded by:**
Marlena Krcelich
South Environmental
2061 N. Los Robles Ave., Ste. 205
Pasadena, CA 91104

***P9. Date Recorded:** 8/8/2023

***P10. Survey Type:** Intensive

***P11. Report Citation:** *Historic Built Environment Assessment for the 2101-2109 East Santa Clara Avenue Project, City of Santa Ana, California* (South Environmental 2023)

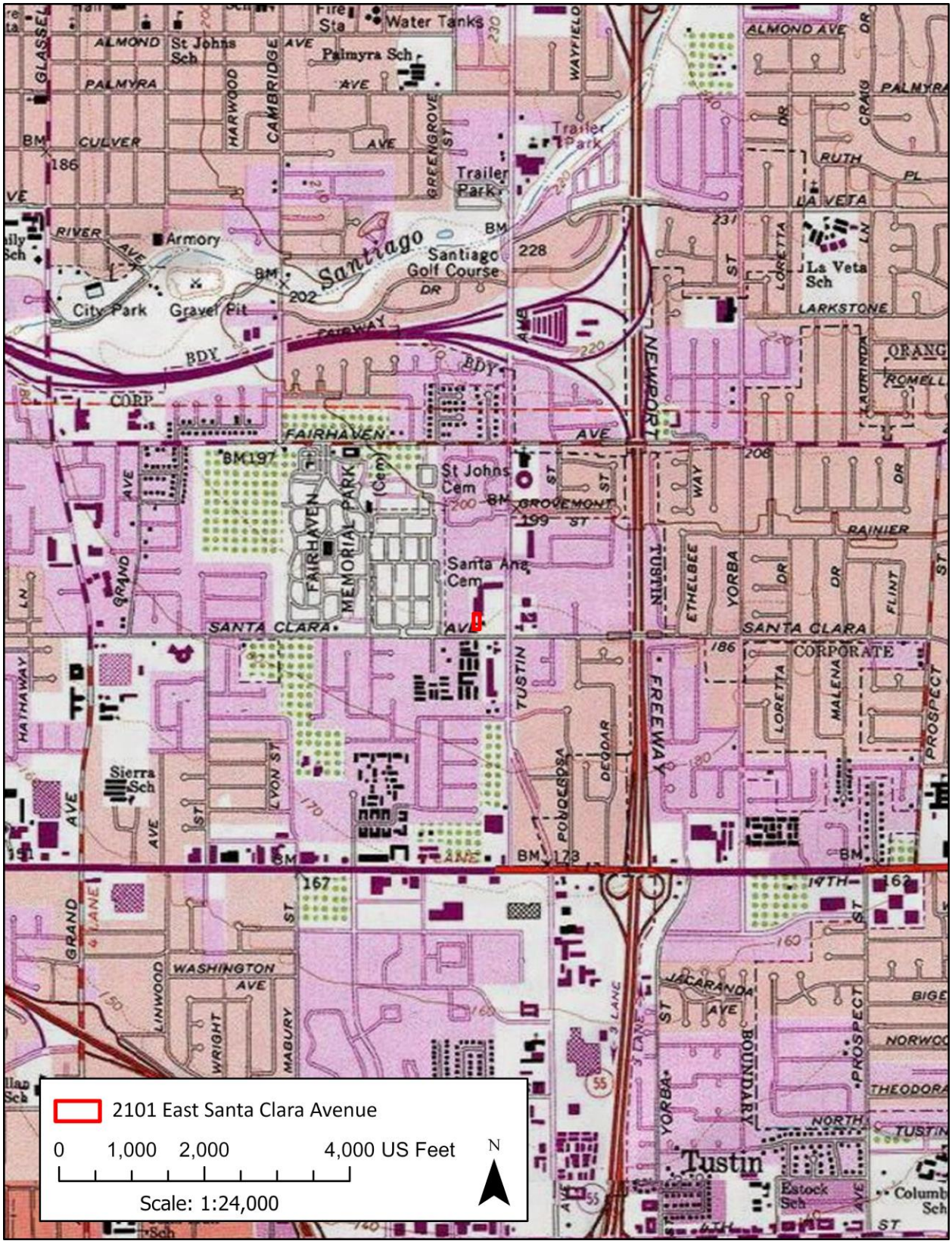
***Attachments:** ☐NONE ■Location Map ■Continuation Sheet ■Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

**State of California Natural Resources Agency**
**DEPARTMENT OF PARKS AND RECREATION**

# LOCATION MAP

Primary #
HRI#
Trinomial

**Page** 2 **of** 18 ***Resource Name or #** (Assigned by recorder) 2101 East Santa Clara Avenue
***Map Name:** Santa Ana, California ***Scale:** 1:24,000 ***Date of map:** 2023



# BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 2101 East Santa Clara Avenue ***NRHP Status Code** 6Z


B1. Historic Name: n/a
B2. Common Name: n/a
B3. Original Use: Single-family home B4. Present Use: Vacant
*** B5. Architectural Style:** Spanish Colonial Revival
***B6. Construction History:** (Construction date, alterations, and date of alterations)
The single-family residence was constructed at an unknown date and moved to the subject property in 1967. The following alterations were identified since the building's relocation to the site:

- 1967: Home relocated to site and detached garage constructed (Permit No. 16119).
- 1968: Sunshade installed; location unspecified (Permit No. 17330).
- 1989: Detached garage re-roofed (Permit No. 53231)
- Unknown Date: Original windows replaced with vinyl windows.

***B7. Moved?** ☐No ■Yes ☐Unknown **Date:** 1967 **Original Location:** Unknown
***B8. Related Features:** n/a
B9a. Architect: n/a b. Builder: n/a
***B10. Significance: Theme** n/a **Area** n/a
**Period of Significance** n/a **Property Type** n/a **Applicable Criteria** n/a

The subject property is not eligible under all City of Santa Ana and CRHR designation criteria due to a lack of important historical associations and architectural merit.

## Historic Context

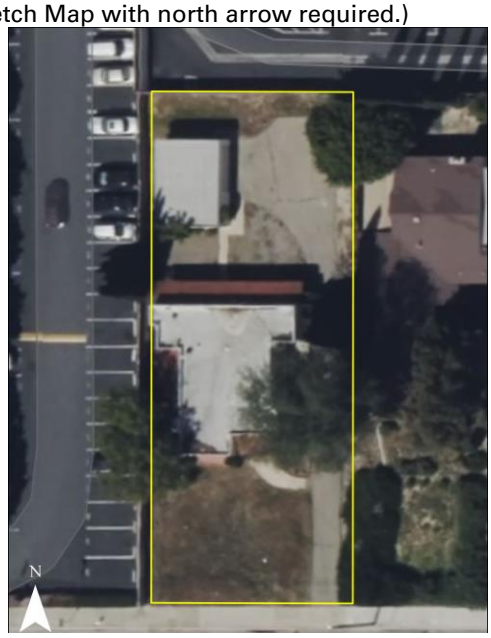
### Historical Overview of Santa Ana

The Spanish first arrived in Santa Ana in 1769 when Don Gaspar De Portolá stopped in the future city during the Portolá expedition. Under a Spanish land grant, Jose Antonio Yorba and Juan Peralta established the area as the Rancho Santiago de Santa Ana and used it for grazing cattle and crop farming. By 1868, the Rancho was divided between the descendants of the Yorba and Peralta families, as well as others who purchased an interest in the land. This partitioning of the Rancho resulted in the development of several small towns in the area, including Tustin, Orange, and Santa Ana (ACHP 2023; Ball et al. 2006; Brigandi 2019) (see Continuation Sheet).

B11. Additional Resource Attributes: (List attributes and codes)
***B12. References:** See Continuation Sheet
B13. Remarks:

***B14. Evaluator:** Marlena Krcelich, South Environmental
***Date of Evaluation:** 8/8/2023

(Sketch Map with north arrow required.)




(This space reserved for official comments.)

***P3a. Description (Continued):**

The primary (south) elevation contains a small front porch with a shed roof clad in red clay tiles, supported by wooden posts. The front porch contains the main entry door, flanked by two fixed wood windows. This elevation also contains a large, fixed wood picture window that is currently boarded up with plywood, with two flanking casement windows and a metal awning (Photograph 1).

The east elevation contains various types of wood windows and a small projected area that has a set of stairs with a stoop and divided-light wood entry door. Three of the windows have been replaced with vinyl windows (Photograph 2). Along the top of the elevation are various vents with decorative, ornate vent covers made of wood (Photograph 3).

The north elevation features a covered patio that runs along the entire elevation. The shed roof is clad in red clay tiles and is supported by wooden posts. This elevation contains a variety of wood windows and a small set of stairs leading to a wooden entry door (Photograph 4). At the west end of the elevation is a set of stairs that lead down to the basement level with an entry door (Photograph 5).

The west elevation contains a projected sun porch area that has a shed roof clad in red clay tiles. The sunroom and the rest of the elevation has a variety of wood window types, and two vinyl replacement windows. This elevation also contains a wooden pergola extending out from the elevation that is supported by wooden posts. The south end of the elevation has a chimney that has red clay tiles on one side where the flume tapers. This elevation also has decorative wooden vents (Photographs 6 and 7).

At the rear of the property is a detached garage with a single replacement garage door on the east elevation, flat roof, and stucco exterior. The garage contains one entry door on the south elevation and metal windows (Photograph 8).

**Photograph 1. Overview of primary (south) elevation, facing north.**

Photograph 2. Overview of east elevation, facing west.

Photograph 3. Detailed view of vents over windows, facing west.

Photograph 4. Overview of north elevation, facing southwest.

Photograph 5. Detailed view of the staircases on the north elevation, facing southwest.

Photograph 6. Overview of north end of west elevation, facing northeast.

Photograph 7. Overview of south end of west elevation, facing east.

**Photograph 8. Overview of detached garage, facing northwest.**

***B10. Significance (Continued):**

In 1869, a man originally from Missouri who was living in Central California named William H. Spurgeon traveled south looking for a spot to establish a new town. He and his partner Ward Bradford purchased 74 acres of the old Rancho and started the small town of Santa Ana. The town was plotted and later officially surveyed in 1870. Spurgeon ran a store out of his house that serviced the town. By 1870, his building also housed the post office. The original townsite included First to Seventh Streets, between Broadway and Spurgeon (ACHP 2023; Ball et al. 2006; Brigandi 2019).

In 1877, Spurgeon, J. H. Fruit, and James McFadden organized a company called the Western Development Company with the purpose of raising money to extend a Southern Pacific Railroad Company line from Anaheim to Santa Ana. Many merchants and landowners who were subdividing lots made contributions, hoping to increase Santa Ana's size and business potential. The Western Development Company also took this opportunity to attempt to relocate to the downtown business area of Santa Ana to where the new depot would be located. The new railroad depot was located north of the Fruit Street crossing and was no longer located in the downtown area. The Western Development Company bought 160 acres of land northeast of the original townsite, closer to the new depot, and subdivided it into business lots with the streets laid out parallel to the train tracks, going against the established town grid. The company offered these lots to businessmen free of charge to entice them to relocate. Skeptical of making such an uncertain move, there was a general resistance from many of the merchants and the creation of a new downtown ultimately failed. Instead, merchants stood at the depot with signs, encouraging travelers to go a short distance further to see Santa Ana's already-established downtown. The lots near the depot were later sold for residential purposes (Swanner 1953).

The arrival of the Southern Pacific Railroad in Santa Ana helped solidify the City's connection to larger cities like Los Angeles, prompting more development and growth. Development from the late 1870s through the 1890s included the Richelieu Hotel, Masonic Hall, printing shops, the Commercial Bank of Santa Ana, French's Opera House, First

National Bank, Brick Water Works plant, blacksmiths, and livery and feed stables. A man named Henry Neil started a stage line that traveled 89 miles south to San Diego, making it possible to have transportation to two of the closest large cities in the region. By 1886, Santa Ana was officially incorporated as a city with approximately 2,000 residents (Ball et al. 2006).

Looking to distinguish themselves from Los Angeles, many residents in Santa Ana and surrounding cities moved to form their own county. In 1889, a bill was passed that paved the way for formation of a new county, with Santa Ana chosen as the county seat of Orange County on August 1st (Orange County Historical Society 2023).

By the early 1900s, Santa Ana (City) evolved and developed with more shops, hotels, banks, and three railroads: the Pacific Electric, Santa Fe, and Southern Pacific, having routes through the City. In c. 1905, the Santa Ana Valley hospital opened and provided medical care for residents. There was a lack of infrastructure this time, with many of the streets unpaved and easily flooded. While automobiles rose in popularity, electric streetcar routes ran through the City and were a popular transportation option. The population continued to grow and resulted in further residential development. More stately homes for the City’s wealthier residents were constructed during this time on French, Bush, Ross, and Spurgeon Streets.

Despite the City's growth and development in the early 1900s, tragedy struck in 1906 in the City's Chinatown. Chinatown, located near present-day City Hall, was burned down due to supposed health and safety issues in the neighborhood. Men from China were brought to the area through a labor contract for the Early Fruit Company to plant and harvest celery. The men were harassed in the fields with many of their tools and belongings stolen. Their dwellings located near the heart of the City were considered an eyesore, which led to a man named Dr. John Clark recommending the area should be condemned and cleared by fire. While some locals objected, the plan went through and the City organized a “municipal burn” therefore eradicating the area (Goddard et al. 1969).

The early 1900s were also notable for the growth and development of the agricultural economy in the City. The introduction of the railroads allowed for easier transportation of produce grown in the area. Popular crops included oranges, sugar beets, lima beans, chili peppers, and Barely. In the 1910s, the orange industry expanded greatly, and many orange growers constructed homes within the groves around the outskirts of the City. Walnuts also became a more popular crop, pacing out grain farming. While the economy of Orange County and Santa Ana was still dominated by agriculture in the 1920s and early 1930s, the agriculture industry was as prosperous as ever. Oranges in the County brought in a record of $15,500,000 and lemons brought in $2,072,000 in revenue.

In addition to agricultural production, processing plants also developed in the City. For instance, branches of larger packing and distribution companies, such as Del Monte and Diamond Brand Walnuts set up warehouses in Santa Ana. Taylor’s, a cannery company that produced a luxury line of canned apricots, peaches, and watermelon, established a branch in Santa Ana. Taylor’s products appeared on tables in notable hotels and restaurants of famous cities all around the world. As the City continued to develop on a larger scale with the establishment of large companies, more infrastructure was needed. Street surfacing began on a wider scale and by the 1920s, nearly all City streets were paved. In 1920, Santa Ana’s population was around 16,000, and by 1930, it reached over 30,000 (Goddard et al. 1969; Marsh 1994).

The Great Depression came to Santa Ana more slowly than other cities, but still had a significant impact. By 1931, residential home construction slowed dramatically. There

was also an increase in tax delinquencies and property repossessions. Agricultural sales also slowed, with a sharp decline in wholesale prices, particularly for citrus fruits. In 1933, the Long Beach earthquake spread destruction throughout Orange County, causing millions of dollars work of damage. Buildings in Santa Ana's downtown suffered from shattered windows and crumbling facades. The earthquake also resulted in three deaths in Santa Ana (Goddard et al. 1969; Marsh 1994).

Although the Depression slowed progress, some construction continued in the early 1930s. City Hall was damaged in the Long Beach earthquake and was reconstructed in 1935 in the new Moderne style. Many other downtown buildings damaged by the earthquake were redesigned and constructed in the Moderne style. Examples of these buildings include the Carey Smith Building and the Company L Armory Building. Another achievement of the 1930s was a Works Progress Administration project, which created 20 volumes of historical materials related to Santa Ana. Orange County Historical Society members made the effort to record pioneer histories from as early as the 1860s through the 1930s, providing a comprehensive history of Santa Ana's past and its early residents. In addition, Charles W. and Ada Bowers, residents of Santa Ana and lovers of history, set up a trust to use their estate to establish a museum for the City. In 1932, architects Frank Lansdown and W. Horace Austin designed the two-story Spanish Colonial Revival building that served as the museum (Goddard et al. 1953; Marsh 1994).

During the 1940s, Santa Ana continued to recover from the Depression years at a slow pace. The population only increased by 1,599 between 1930 and 1940. Residential construction continued, however, at a slow rate (Goddard et al. 1969). At the beginning of World War II, Santa Ana experienced a boom in development when the Santa Ana Army Air Base (SAAAB) was constructed. The City Council obtained more than 400 acres of land from the Berry Rancho interests to begin constructing the base. The finished base encompassed 1,336 acres and was activated on February 15, 1942. The base acted as a classification and pre-flight training center that graduated over 128,000 members. Near the end of the war, the SAAAB was converted into a rest camp for wounded men and a training ground for readjustment to civilian life. Many civilians also worked at the base and had to find new work when the base was decommissioned in March of 1946. Later, 175 acres of the former base were planned as a fairground and Recreational Area (Costa Mesa Historical Society 2023; Goddard et al. 1969).

The war had many other effects on Santa Ana. After Pearl Harbor, all Japanese residents living in Orange County were sent to an internment camp at Poston, Arizona and were not allowed to return until early 1945. The City also experienced blackouts to protect against air raids, and 324 volunteers were called to serve as air-raid wardens and be on the lookout for potential threats. Supplies became scarce including everything from meat and butter to gasoline and tires. Despite these issues, Santa Ana's population grew immensely due to people coming to the area to work from at the SAAAB or any of the other surrounding bases in the region. When the war concluded, many of them decided to stay. In 1940, the population was 32,000 and it rose to 45,000 by 1950. This resulted in a boom in residential, as well as public and educational building construction throughout the City (Goddard et al. 1969).

In January 1959, 3,000 acres were added to Santa Ana, making its new size a total of 22 square miles. Buildings such as churches, professional offices, and business and shopping centers were constructed in the outer margins of the City and new subdivisions were developed. The Santa Ana Chamber of Commerce established an Industrial Development Division and zoned over 2,850 acres of land for light industry in the City. By 1969, the population of the City skyrocketed to 151,580. In the late 1960s, more than 10 new manufacturing firms were established in Santa Ana, employing thousands of people (Goddard

et al. 1969).

Throughout the late 1960s and 1970s, the downtown area of Santa Ana began to decline as the City sprawled and focus turned to more single-family neighborhoods, automobiles, and shopping centers. During the 1970s, Latinos accounted for the largest population growth in Santa Ana for the first time, with many immigrants coming from Mexico. The City also experienced white flight to more suburban areas. Less investment was put into the downtown area, resulting in disproportionate development in the City. However, a hub of Mexican culture established in these areas, and in 1984, Mexican businesses dominated the area as a working-class commercial zone (Gonzalez 2017).

In the 1990s and 2000s, reinvestment began to come to the downtown area with developments such as the Artist Village, a 10-block subsidized artist colony in southwest downtown (Gonzalez 2017). Today the City encompasses 27 square miles and has a population of over 310,000 (City of Santa Ana 2023).

**Property Development History**

The earliest aerial imagery from 1938 shows the subject property as an orchard. No buildings or structures were present on site at this time. Most of the surrounding area was used for orchards as well, with some houses and agricultural buildings scattered throughout. To the west of the property, Fairhaven Memorial Park was partially developed. Denser development during this time was concentrated in the present downtown area of Santa Ana (NETR 2023; FrameFinder 2023).

In the early 1960s, more residential and some commercial developments began to be constructed in the area. California State Route 55 was also under construction to the east by 1963 (NETR 2023; FrameFinder 2023).

The single-family residence was constructed at an unknown date and moved to the site in 1967. In 1967, a permit was issued to relocate the single-family home within the site and build a new garage. The garage totaled 660 square feet (City of Santa Ana, Permit No. 16119). In 1968, another permit was issued for a sunshade, although the location of the installation is not specified (City of Santa Ana, Permit No. 17330) (Exhibit 1). By 1970, while some of the land to the north and east of the subject property remained orchards, several of the lots appeared undeveloped or filled in with residential developments. At this time, the California Highway Patrol station to the west was constructed, as well as the house to the east, but the rest of the now-commercial shopping center remained undeveloped until 1972 (NETR 2023).

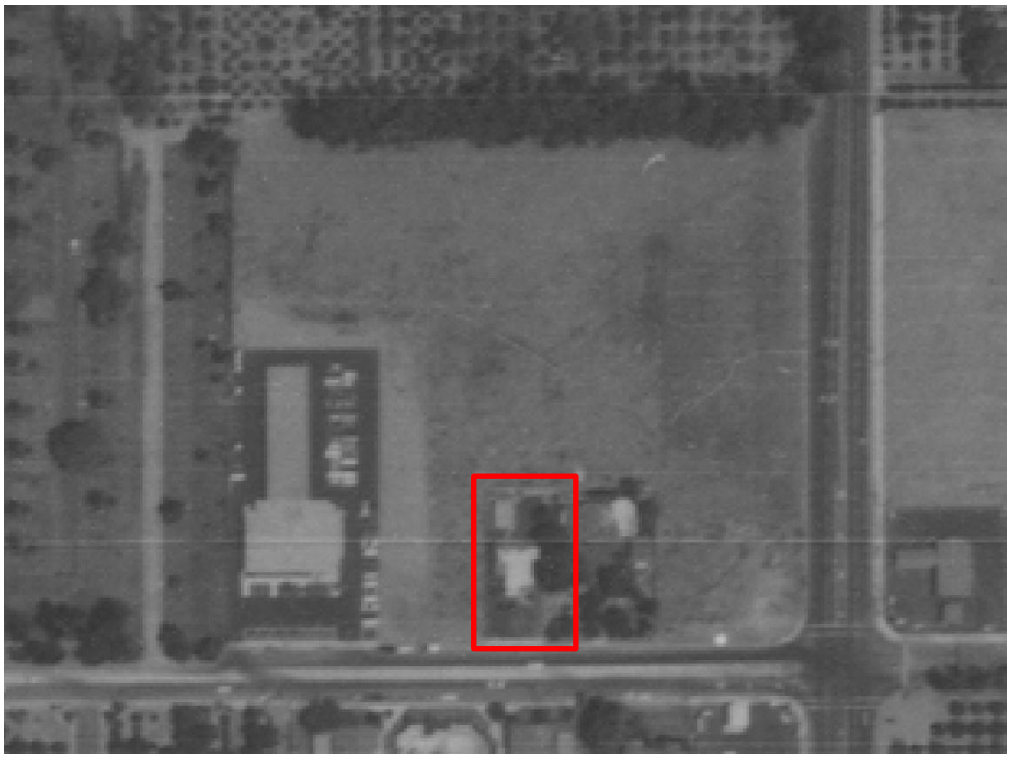


**Exhibit 1. 1968 aerial image of 2101 E Santa Clara Ave (FrameFinder 2023).**

In 1989 a permit was issued for a reroof of the detached garage (City of Santa Ana, Permit No. 53231). No other permitted changes were found through the course of archival research. At this time the property and the surrounding area appeared as they do in the present day.

In 2009, a permit was issued to Andrea R. Newcomb to operate a private piano and voice lesson business out of the residence (City of Santa Ana, Application No. 2009-734-HOP). In 2023, a Lot Merger Certification was filed to merge the subject property with the parcel directly to the east (City of Santa Ana, Lot Merger No. 2023-01).

**Owner and Occupant History**

Based on permit and title records, 2101 East Santa Clara Avenue was owned by the Newcomb family from 1967 until it was sold to Stater Bros., Inc. in 2021. The names of the Newcomb family members associated with permits and records for the address include Fred, Robert, Doris, and Andrea, with Stephen R. Newcomb later serving as trustee of the family trust starting in 1971. Robert was born in Santa Ana in 1920. He married his wife Doris Mellott in 1945, who was from the City of Orange. Robert had a brother named Fred Newcomb Jr. who also lived in Santa Ana. Andrea's exact relation to the Newcomb family was not clear. Archival research did not reveal any additional relevant information regarding the Newcomb family. The family also owned the adjacent parcel, 2109 East Santa Clara Avenue (Ancestry.com various; City of Santa Ana various; ParcelQuest 2023).

**Architectural Style**

Spanish Colonial Revival (c.1915-1940)

The Spanish Colonial Revival style has a rich history and popularity in California with a basis in architectural forms that were influenced by an eclectic mix of historical architectural styles in Spain, such as Moorish, Andalusian, Renaissance, or Baroque architectural vocabulary, but also drew from modernist styles of Art Deco and popular nineteenth century Mediterranean Revival, Monterey Revival, Pueblo and Santa Fe Revival, and Mission Revival styles. The style achieved state-wide popularity after the 1915 Panama-California Exposition in San Diego, which featured designs by architect Bertram Grosvenor Goodhue using the late-Baroque Churrigueresque style of Spain and Mexico. Goodhue's designs featured intricate ornamentation applied to plain stucco surfaces, towers, domes, and was well-suited to public/civic buildings, churches, and commercial buildings, though smaller scale versions of the style area well represented in residential architecture as well. The San Diego Exposition was an exploration of and attempt to create a specific California architectural style, romanticizing the region's Spanish colonial past, Mexican farmhouse/hacienda living, while at the same time bearing little resemblance to the actual Spanish colonial-era buildings in California. The California-specific mode also broke with the American Colonial Revival and Tudor Revival styles popular elsewhere in the United States during 1910s through the 1940s. Spanish Colonial Revival's popularity coincided with a population boom for the state in the 1920s, resulting in the widespread use of the style, eventually tapering off in the 1940s as more austere Minimal Traditional and International styles gained popularity during the later Great Depression and World War II years. Despite a decrease in overall popularity, Spanish Colonial Revival continued to inform and influence modern architectural styles and is a popular influencing style for Neo-Traditional style architecture today (City of Santa Barbara 2021; Gebhard 1967; Newcomb 1937; McAlester 2015).

The most significant character-defining features of the Spanish Colonial Revival style include the following:

- Simple rectangular or L-shaped plans
- Asymmetrical façades
- Low pitched roofs with clay tiles
- Stucco walls
- Arched entryways
- Irregular fenestration, but often with multi-pane casement or double hung windows, and sometimes featuring focal windows
- Elaborately carved wood entry doors
- Wrought-iron balconies
- Interior decorative tile work
- Emphasis on outdoor spaces such as patios and courtyards, or arcaded walkways

**Significance Evaluation**

The following presents an evaluation of the subject property in consideration of CRHR and City of Anaheim designation criteria.

***CRHR Criterion 1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.***

The single-family house was constructed at an unknown date and moved to the subject property in 1967, a time when Santa Ana was experiencing rapid residential development. Based on historic aerial photography, at the time of the subject property's relocation, residential construction was beginning to replace the agricultural orchards that covered the land before. Archival research revealed that the house was relocated and owned by the same family for nearly its entire existence. Due to the relocation of the house and the fact that its original construction date, context, and location remain unknown, it cannot directly be associated with any broad pattern of history. When it was moved to the subject property in 1967, it became one of countless residential buildings in the area. Archival research also failed to indicate that the property was associated with any specific events in the City, region, or state. Therefore, the subject property is recommended not eligible under CRHR Criteria 1.

***CRHR Criterion 2. Is associated with the lives of persons important in our past.***

The subject property was relocated and owned by the Newcomb family until it was sold in 2021. Members of the Newcomb family include Robert and his wife Doris, who were both originally from Orange County. Robert's brother Fred Newcomb was also associated with the property, as well as another family member, Andrea Newcomb. Archival research did not reveal any significant information regarding any of the Newcomb family members associated with the property. Therefore, the subject property is recommended not eligible under CRHR Criterion 2.

***CRHR Criterion 3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.***

***City Criterion 1. Buildings, structures or objects with distinguishing characteristics of an architectural style or period, that exemplify a particular architectural style or design features.***

***City Criterion 2. Works of notable architects, builders, or designers whose style influenced architectural development.***

***City Criterion 3. Rare buildings, structures, or objects or original designs.***

The single-family house was constructed at an unknown date and relocated to the subject property in 1967. The house was constructed in the Spanish Colonial Revival style and retains several character-defining features of the style including an asymmetrical façade, clay roof tiles, stucco walls, and irregular fenestration with a mix of wood window types. However, the residence is a late example of the style, which had a period of significance in Southern California from c.1915-1940, and exhibits an unremarkable design. Alterations, including the addition of a metal awning on the front elevation and replaced windows and doors, further detract from the style. While the building does possess many of the character defining features of the Spanish Colonial Revival style of architecture, it is not unique or innovative in its design and exhibits several alterations. Therefore, the residence does not rise to the level of significance required for an individual building

designation under this criterion. Furthermore, much of the surrounding area has been developed with shopping centers and multi-unit housing developments built throughout various decades so there is very little cohesion in time period or style. Therefore, the property has no potential to contribute to a potential historic district. In addition, the subject property was not found to be the work of a notable architect, builder or designer. Therefore, the subject property is recommended not eligible under CRHR Criterion 3 and City Criteria 1, 2, or 3.

***CRHR Criterion 4. Has yielded, or may be likely to yield, information important in prehistory or history.***

The subject property is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the property is not recommended eligible under CRHR Criterion 4.

***City Criterion 4. Buildings, structures, objects or sites of historical significance which include places:***

- ***a. Where important events occurred;***
- ***b. Associated with famous people, original settlers, renowned organizations and businesses;***
- ***c. Which were originally present when the city was founded; or***
- ***d. That served as important centers for political, social, economic, or cultural activity.***

Archival research did not reveal that that the subject property was a place where important events occurred. The property was only associated with the Newcomb family, who were from Orange County but were not pioneers. Nor were they associated with renowned organizations or business. The single-family house was constructed at an unknown date and relocated to the subject property in 1967. It represents an architectural style popular from circa 1915-1940 and therefore was very likely not present when the City was founded in 1869 as the style falls decades after the founding. It served as a private residence for its entire existence and was not known to serve as an important center for political, social, economic, or cultural activity. Therefore, the subject property is not recommended eligible under City Criterion 4.

***City Criterion 5. Sites of archaeological importance.***

The subject property is not known to be a site of archaeological importance. Therefore, the property is not recommended eligible under City Criterion 5.

***City Criterion 6. Buildings or structures that were connected with a business or use which was once common, but is now rare.***

The subject was constructed and used as a private residence. Archival research did not reveal that it was connected with a business or use which was once common but is now rare. Therefore, the property is not recommended eligible under City Criterion 6.

**Integrity**

**Location:** The subject property lacks integrity of location. The single-family house was relocated from an unknown location to the subject property in 1967. The detached garage was constructed on site in 1967.

**Design:** The subject property retains integrity of design. It retains its 1967 footprint and many of its original features.

**Setting:** The subject property has a diminished integrity of setting. Given that the original location of the property is unknown, it is impossible to evaluate its original setting. However, since the home was moved to the property in 1967 the setting remains generally intact. Most of the surrounding properties were constructed in the 1960s, 1970s, and 1980s around the same time as the relocation of the house to the subject property when the area converted from agricultural land to commercial and residential use.

**Materials:** The subject property has diminished integrity of materials with the introduction of incompatible replacement materials such as vinyl windows and a steel awning.

**Workmanship:** The subject property retains integrity of workmanship, as the overall lack of modifications reflects its original workmanship.

**Feeling:** The subject property has a diminished integrity of feeling. While the original setting and feeling of the building area are unknown, the subject property still reads as a residential home in a mixed residential and commercial area.

**Association:** The subject property lacks integrity of association. The property has no important associations with events, people, or important patterns of development in the City. Any associations it may have had before its relocation have been lost.

For all of the reasons provided above, the property at 2101 E. Santa Clara Avenue is not eligible for CRHR or local designation.

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**State of California — The Resources Agency**
**DEPARTMENT OF PARKS AND RECREATION**

# PRIMARY RECORD

Primary #
HRI #
Trinomial
**NRHP Status Code** 6Z

Other Listings
Review Code Reviewer Date

**Page** 1 **of** 18 ***Resource Name or #:** (Assigned by recorder) 2109 East Santa Clara Avenue

**P1. Other Identifier:**

***P2. Location:** ☐ **Not for Publication** ■ Unrestricted

***a. County** Orange **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad** Santa Ana **Date** 2023 **T** 05 S ; **R** 09 W ; _ ☐ **of** _ ☐ **of Sec** 5; SB **B.M.**

c. Address 2109 East Santa Clara Ave City Santa Ana Zip 92705

d. UTM: Zone 11S, 422512.32 mE/ 3736702.20 mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

APN 396-261-38. The subject property is located on the north side of East Santa Clara Avenue. It is bound to the north by Stater Bros. market, to the west by a single-family home, and to the east by a fast-food restaurant and parking area.

***P3a. Description:**

The subject property is a one-story, single-family residence with a detached garage. It consists of an irregularly shaped floor plan and has a low-pitched cross gable roof with deep eaves and exposed wood rafter tails. The exterior is clad in brick, board-and-batten siding, and stucco (see Continuation Sheet).

***P3b. Resource Attributes:** (List attributes and codes) HP2. Single family property

***P4. Resources Present:** ■ Building ☐ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Primary (south) elevation, view to northwest (South Environmental 2023)

***P6. Date Constructed/Age and Source:** ■ Historic ☐ Prehistoric ☐ Both
c. 1957 (FrameFinder)

***P7. Owner and Address:**
SRP/Stater Bros LLC
3161 Michelson Dr
Suite 100
Irvine, CA 92612

***P8. Recorded by:**
Marlena Krcelich
South Environmental
2061 N. Los Robles Ave., Ste. 205
Pasadena, CA 91104

***P9. Date Recorded:** 8/8/2023

***P10. Survey Type:** Intensive

***P11. Report Citation:**
*Historic Built Environment Assessment for the 2101-2109 East Santa Clara Avenue Project, City of Santa Ana, California* (South Environmental 2023)

***Attachments:** ☐NONE ■Location Map ■Continuation Sheet ■Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

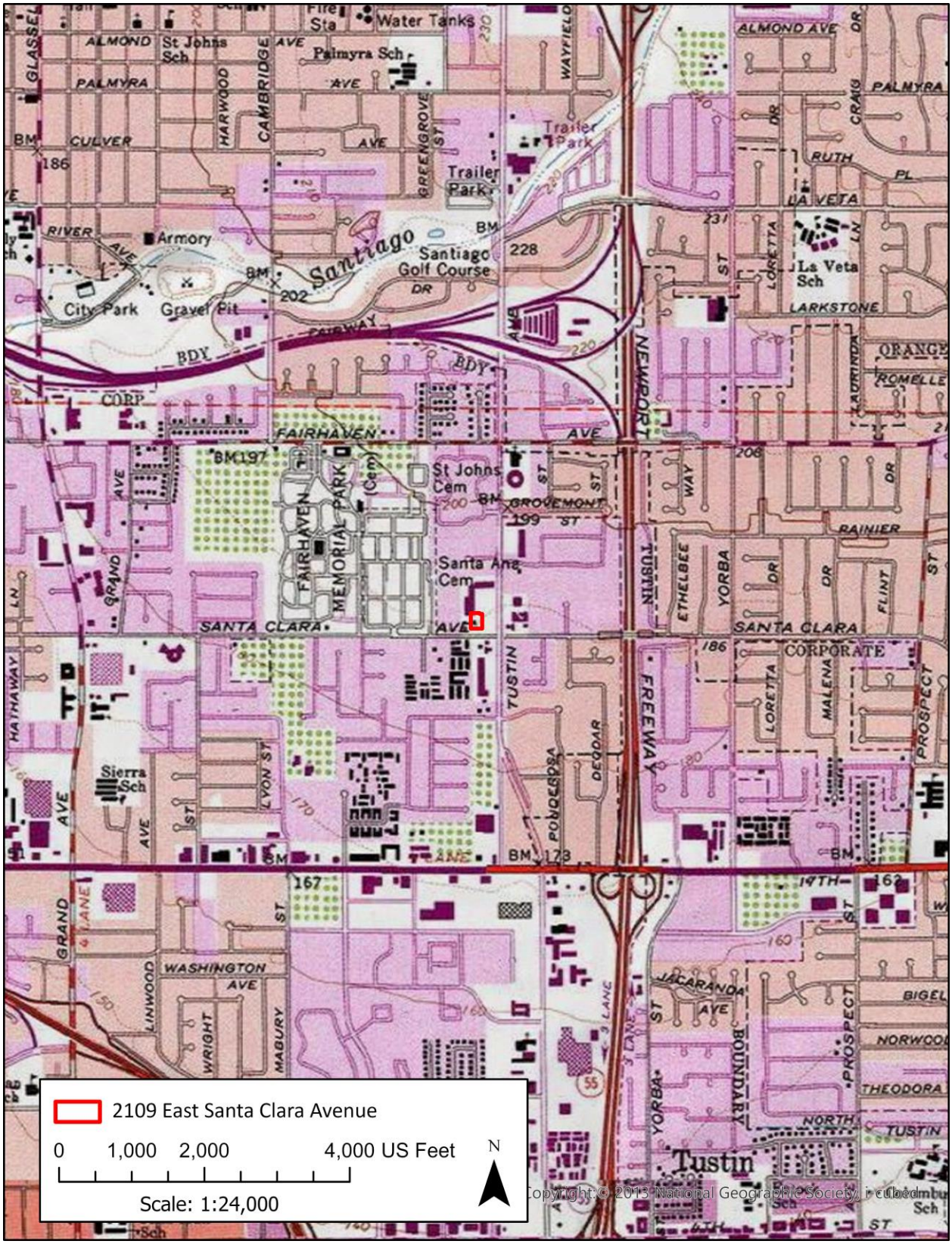
**State of California Natural Resources Agency**
**DEPARTMENT OF PARKS AND RECREATION**

# LOCATION MAP

Primary #
HRI#

Trinomial

**Page** 2 **of** 18 ***Resource Name or #** (Assigned by recorder) 2109 East Santa Clara Avenue
***Map Name:** Santa Ana, California ***Scale:** 1:24,000 ***Date of map:** 2023



# BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) 2109 East Santa Clara Avenue ***NRHP Status Code** 6Z


B1. Historic Name: n/a
B2. Common Name: n/a
B3. Original Use: Single-family home B4. Present Use: Vacant
*** B5. Architectural Style:** Ranch
***B6. Construction History:** (Construction date, alterations, and date of alterations)
The subject property was constructed in circa 1957 (FrameFinder 2023). The following alterations were identified since the building's original construction:

- 1966: Swimming pool constructed (Permit No. 12464).
- 1993: Two permits for reroofing house and detached garage (Permit Nos. 73158 and 73159)
- 2023: Lot merged with property directly to the east (Lot Merger No. 2023-01
- Unknown Date: Stucco redone on detached garage

***B7. Moved?** ■No ☐Yes ☐Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:** n/a
B9a. Architect: _____ b. Builder: n/a
***B10. Significance: Theme** n/a **Area** n/a
**Period of Significance** n/a **Property Type** n/a **Applicable Criteria** n/a

The subject property is not eligible under all City of Santa Ana and CRHR designation criteria due to a lack of important historical associations and architectural merit.

## Historic Context

### Historical Overview of Santa Ana

The Spanish first arrived in Santa Ana in 1769 when Don Gaspar De Portolá stopped in the future city during the Portolá expedition. Under a Spanish land grant, Jose Antonio Yorba and Juan Peralta established the area as the Rancho Santiago de Santa Ana and used it for grazing cattle and crop farming. By 1868, the Rancho was divided between the descendants of the Yorba and Peralta families, as well as others who purchased an interest in the land. This partitioning of the Rancho resulted in the development of several small towns in the area, including Tustin, Orange, and Santa Ana (ACHP 2023; Ball et al. 2006; Brigandi 2019) (see Continuation Sheet).

B11. Additional Resource Attributes: (List attributes and codes) ____
***B12. References:** See Continuation Sheet
B13. Remarks:

***B14. Evaluator:** Marlena Krcelich, South Environmental
***Date of Evaluation:** 8/8/2023

(Sketch Map with north arrow required.)

(This space reserved for official comments.)

***P3a. Description (Continued):**

The primary (south) elevation contains the main entrance to the residence in the inner corner of the T-shaped floor plan, with the door flanked by two side windows. The entrance is covered by a small roof supported by a wooden post. This elevation features fixed and casement metal windows. It has bricked-lined garden beds along the base of the elevation (Photograph 1). The southernmost point of this elevation is obscured entirely from view by vegetation (Photograph 2).

The east elevation consists of a front portion that has a mix of wood and metal windows (Photograph 3). The rear portion has a large set of sliding glass doors underneath a covered patio, as well as other windows and another entry door. The supports for the patio roof are constructed of metal and tapered to give an angled appearance (Photograph 4). This area of the elevation also includes another covered entry area with a single-entry door, one window, and a small set of stairs. The backyard area consists of a large concrete patio and an inground swimming pool (Photographs 5 and 6).

The detached garage is located at the front of the property along the eastern edge. It has one replacement garage door on the west elevation and one entry door on the north elevation (Photograph 12).

The north and west elevations contain a variety of wood and metal window types and sizes (Photographs 7 and 8). At the northwest corner of the house is a wooden pergola extending from the west elevation and supported by wooden posts (Photograph 9). On the north elevation is a brick chimney (Photograph 10).

**Photograph 1. Overview of primary (south) elevation, facing northwest.**

Photograph 2. Overview of southernmost point of south elevation, facing northwest.

Photograph 3. Overview of front portion of east elevation, facing west.

Photograph 4. Detailed view of covered patio area, facing southwest.

Photograph 5. Overview of rear portion of east elevation, facing southwest.

Photograph 6. Overview of east elevation and backyard area, facing northwest.

Photograph 7. South end of the west elevation, facing northeast.

Photograph 8. North end of the west elevation, facing southwest.

Photograph 9. Pergola area at northwest corner of the house, facing south.

Photograph 10. Chimney on north elevation, facing southeast.

Photograph 11. Overview of detached garage, facing east.

***B10. Significance (Continued):**

In 1869, a man originally from Missouri who was living in Central California named William H. Spurgeon traveled south looking for a spot to establish a new town. He and his partner Ward Bradford purchased 74 acres of the old Rancho and started the small

town of Santa Ana. The town was plotted and later officially surveyed in 1870. Spurgeon ran a store out of his house that serviced the town. By 1870, his building also housed the post office. The original townsite included First to Seventh Streets, between Broadway and Spurgeon (ACHP 2023; Ball et al. 2006; Brigandi 2019).

In 1877, Spurgeon, J. H. Fruit, and James McFadden organized a company called the Western Development Company with the purpose of raising money to extend a Southern Pacific Railroad Company line from Anaheim to Santa Ana. Many merchants and landowners who were subdividing lots made contributions, hoping to increase Santa Ana's size and business potential. The Western Development Company also took this opportunity to attempt to relocate to the downtown business area of Santa Ana to where the new depot would be located. The new railroad depot was located north of the Fruit Street crossing and was no longer located in the downtown area. The Western Development Company bought 160 acres of land northeast of the original townsite, closer to the new depot, and subdivided it into business lots with the streets laid out parallel to the train tracks, going against the established town grid. The company offered these lots to businessmen free of charge to entice them to relocate. Skeptical of making such an uncertain move, there was a general resistance from many of the merchants and the creation of a new downtown ultimately failed. Instead, merchants stood at the depot with signs, encouraging travelers to go a short distance further to see Santa Ana's already-established downtown. The lots near the depot were later sold for residential purposes (Swanner 1953).

The arrival of the Southern Pacific Railroad in Santa Ana helped solidify the City's connection to larger cities like Los Angeles, prompting more development and growth. Development from the late 1870s through the 1890s included the Richelieu Hotel, Masonic Hall, printing shops, the Commercial Bank of Santa Ana, French's Opera House, First National Bank, Brick Water Works plant, blacksmiths, and livery and feed stables. A man named Henry Neil started a stage line that traveled 89 miles south to San Diego, making it possible to have transportation to two of the closest large cities in the region. By 1886, Santa Ana was officially incorporated as a city with approximately 2,000 residents (Ball et al. 2006).

Looking to distinguish themselves from Los Angeles, many residents in Santa Ana and surrounding cities moved to form their own county. In 1889, a bill was passed that paved the way for formation of a new county, with Santa Ana chosen as the county seat of Orange County on August 1st (Orange County Historical Society 2023).

By the early 1900s, Santa Ana (City) evolved and developed with more shops, hotels, banks, and three railroads: the Pacific Electric, Santa Fe, and Southern Pacific, having routes through the City. In c. 1905, the Santa Ana Valley hospital opened and provided medical care for residents. There was a lack of infrastructure this time, with many of the streets unpaved and easily flooded. While automobiles rose in popularity, electric streetcar routes ran through the City and were a popular transportation option. The population continued to grow and resulted in further residential development. More stately homes for the City's wealthier residents were constructed during this time on French, Bush, Ross, and Spurgeon Streets.

Despite the City's growth and development in the early 1900s, tragedy struck in 1906 in the City's Chinatown. Chinatown, located near present-day City Hall, was burned down due to supposed health and safety issues in the neighborhood. Men from China were brought to the area through a labor contract for the Early Fruit Company to plant and harvest celery. The men were harassed in the fields with many of their tools and belongings stolen. Their dwellings located near the heart of the City were considered an eyesore, which led to a man named Dr. John Clark recommending the area should be condemned and

cleared by fire. While some locals objected, the plan went through and the City organized a "municipal burn" therefore eradicating the area (Goddard et al. 1969).

The early 1900s were also notable for the growth and development of the agricultural economy in the City. The introduction of the railroads allowed for easier transportation of produce grown in the area. Popular crops included oranges, sugar beets, lima beans, chili peppers, and Barely. In the 1910s, the orange industry expanded greatly, and many orange growers constructed homes within the groves around the outskirts of the City. Walnuts also became a more popular crop, pacing out grain farming. While the economy of Orange County and Santa Ana was still dominated by agriculture in the 1920s and early 1930s, the agriculture industry was as prosperous as ever. Oranges in the County brought in a record of $15,500,000 and lemons brought in $2,072,000 in revenue.

In addition to agricultural production, processing plants also developed in the City. For instance, branches of larger packing and distribution companies, such as Del Monte and Diamond Brand Walnuts set up warehouses in Santa Ana. Taylor's, a cannery company that produced a luxury line of canned apricots, peaches, and watermelon, established a branch in Santa Ana. Taylor's products appeared on tables in notable hotels and restaurants of famous cities all around the world. As the City continued to develop on a larger scale with the establishment of large companies, more infrastructure was needed. Street surfacing began on a wider scale and by the 1920s, nearly all City streets were paved. In 1920, Santa Ana's population was around 16,000, and by 1930, it reached over 30,000 (Goddard et al. 1969; Marsh 1994).

The Great Depression came to Santa Ana more slowly than other cities, but still had a significant impact. By 1931, residential home construction slowed dramatically. There was also an increase in tax delinquencies and property repossessions. Agricultural sales also slowed, with a sharp decline in wholesale prices, particularly for citrus fruits. In 1933, the Long Beach earthquake spread destruction throughout Orange County, causing millions of dollars work of damage. Buildings in Santa Ana's downtown suffered from shattered windows and crumbling facades. The earthquake also resulted in three deaths in Santa Ana (Goddard et al. 1969; Marsh 1994).

Although the Depression slowed progress, some construction continued in the early 1930s. City Hall was damaged in the Long Beach earthquake and was reconstructed in 1935 in the new Moderne style. Many other downtown buildings damaged by the earthquake were redesigned and constructed in the Moderne style. Examples of these buildings include the Carey Smith Building and the Company L Armory Building. Another achievement of the 1930s was a Works Progress Administration project, which created 20 volumes of historical materials related to Santa Ana. Orange County Historical Society members made the effort to record pioneer histories from as early as the 1860s through the 1930s, providing a comprehensive history of Santa Ana's past and its early residents. In addition, Charles W. and Ada Bowers, residents of Santa Ana and lovers of history, set up a trust to use their estate to establish a museum for the City. In 1932, architects Frank Lansdown and W. Horace Austin designed the two-story Spanish Colonial Revival building that served as the museum (Goddard et al. 1953; Marsh 1994).

During the 1940s, Santa Ana continued to recover from the Depression years at a slow pace. The population only increased by 1,599 between 1930 and 1940. Residential construction continued, however, at a slow rate (Goddard et al. 1969). At the beginning of World War II, Santa Ana experienced a boom in development when the Santa Ana Army Air Base (SAAAB) was constructed. The City Council obtained more than 400 acres of land from the Berry Rancho interests to begin constructing the base. The finished base encompassed 1,336 acres and was activated on February 15, 1942. The base acted as a classification

and pre-flight training center that graduated over 128,000 members. Near the end of the war, the SAAAB was converted into a rest camp for wounded men and a training ground for readjustment to civilian life. Many civilians also worked at the base and had to find new work when the base was decommissioned in March of 1946. Later, 175 acres of the former base were planned as a fairground and Recreational Area (Costa Mesa Historical Society 2023; Goddard et al. 1969).

The war had many other effects on Santa Ana. After Pearl Harbor, all Japanese residents living in Orange County were sent to an internment camp at Poston, Arizona and were not allowed to return until early 1945. The City also experienced blackouts to protect against air raids, and 324 volunteers were called to serve as air-raid wardens and be on the lookout for potential threats. Supplies became scarce including everything from meat and butter to gasoline and tires. Despite these issues, Santa Ana's population grew immensely due to people coming to the area to work from at the SAAAB or any of the other surrounding bases in the region. When the war concluded, many of them decided to stay. In 1940, the population was 32,000 and it rose to 45,000 by 1950. This resulted in a boom in residential, as well as public and educational building construction throughout the City (Goddard et al. 1969).

In January 1959, 3,000 acres were added to Santa Ana, making its new size a total of 22 square miles. Buildings such as churches, professional offices, and business and shopping centers were constructed in the outer margins of the City and new subdivisions were developed. The Santa Ana Chamber of Commerce established an Industrial Development Division and zoned over 2,850 acres of land for light industry in the City. By 1969, the population of the City skyrocketed to 151,580. In the late 1960s, more than 10 new manufacturing firms were established in Santa Ana, employing thousands of people (Goddard et al. 1969).

Throughout the late 1960s and 1970s, the downtown area of Santa Ana began to decline as the City sprawled and focus turned to more single-family neighborhoods, automobiles, and shopping centers. During the 1970s, Latinos accounted for the largest population growth in Santa Ana for the first time, with many immigrants coming from Mexico. The City also experienced white flight to more suburban areas. Less investment was put into the downtown area, resulting in disproportionate development in the City. However, a hub of Mexican culture established in these areas, and in 1984, Mexican businesses dominated the area as a working-class commercial zone (Gonzalez 2017).

In the 1990s and 2000s, reinvestment began to come to the downtown area with developments such as the Artist Village, a 10-block subsidized artist colony in southwest downtown (Gonzalez 2017). Today the City encompasses 27 square miles and has a population of over 310,000 (City of Santa Ana 2023).

**Property Development History**

The earliest aerial imagery from 1938 shows that the subject property appeared to be first developed as an orchard. No buildings or structures were present on site at this time. Most of the surrounding area was used for orchards as well, with some houses and agricultural buildings scattered throughout. To the west of the property, Fairhaven Memorial Park was already partially developed. Denser development during this time was concentrated in the present downtown area of Santa Ana (NETR 2023; FrameFinder 2023).

The property and surrounding areas remain relatively unchanged until the early 1950s when the subject property was partially cleared in the area where the future house would be built. The house itself was constructed a few years later in circa 1957 (Exhibit 1). The main house and garage were present, but the pool was not constructed at the same

time. The house remained surrounded by orchard trees, as well as most of the surrounding properties in the area. In the early 1960s more residential and some commercial developments began to be constructed in the area. The California State Route 55 was also under construction to the east by 1963 (NETR 2023; FrameFinder 2023).

**Exhibit 1. 1957 aerial image of 2109 East Santa Clara Ave (FrameFinder 2023).**

In 1966, a permit was issued to construct a swimming pool (City of Santa Ana, Permit No. 12464). By the late 1960s and early 1970s, the area surrounding the property began to change from agricultural to primarily residential use with some commercial developments. By 1972, the commercial shopping center and parking lot to the north and east were constructed. By 1980, the subject property and the surrounding area appeared as they do in the present day (NETR 2023; FrameFinder 2023).

In 1993, two permits were issued to reroof the house and the detached garage (City of Santa Ana, Permit Nos. 73158 and 73159). In 2023, a Lot Merger Certification was filed to merge the subject property with the parcel directly to the east (City of Santa Ana, Lot Merger No. 2023-01).

**Occupant History**

Based on permit and title records, 2109 East Santa Clara Avenue was owned by the Newcomb family from its built date (circa 1957) until it was sold to Stater Bros., Inc. in 2021. The names of the Newcomb family members associated with permits and records for the address include Fred, Robert, Doris, and Andrea, with Stephen R. Newcomb later serving as trustee of the family trust starting in 1971. Robert was born in Santa Ana in 1920. He married his wife Doris Mellott in 1945, who was from the City of Orange. Robert had a brother named Fred Newcomb Jr. who also lived in Santa Ana. Andrea's exact relation to the Newcomb family was not clear. Archival research did not reveal any additional relevant

information regarding the Newcomb family. The family also owned the adjacent parcel, 2101 East Santa Clara Avenue (Ancestry.com various; City of Santa Ana various; ParcelQuest 2023).

**Architectural Style**

Ranch (1930-1975)

The Ranch house is a style of architecture originating in Southern California. It was popular starting in the 1930s and fell out of popularity by the mid-1970s. In the 1930s and early 1940s, the Ranch house was part of the Small House movement that was brought into fashion by the Federal Housing Administration (FHA). After World War II, the Ranch style gained even more popularity as size and building restrictions were lifted and could be found across the country. FHA guidelines continued to exert a strong influence on building Ranch homes. Such as encouraging developers to build entire neighborhoods at once, making Ranch style houses commonplace within large subdivisions.

In the style's early years, and throughout the 1950s and 1960s, the Ranch house could be constructed quickly with modern, mass-produced materials. The style provided a quick and easy construction option both to create new housing to meet the needs of soldiers returning home after the war, and an affordable, yet larger and comfortable option in the later decades post-war.

The smaller Ranch houses of the 1930s and 1940s, and the larger versions from the 1950s and 1960s share many characteristics. “Rambling” Ranch style houses became more popular in the 1950s, due to the nation’s increasing use of automobiles. This permitted developers to build larger homes on bigger, wider lots along winding roads in suburban areas, resulting in a sprawling façade with a focus on emphasizing the width. In contrast, the Ranch homes in the streetcar suburbs of the 1940s were constructed on narrower lots, and therefore had less horizontal emphasis. However, many of the other design features they shared remained the same. As such, the affordability and versatility of the Ranch house made it one of the most popular house choices throughout the United States and was purchased and occupied by people at almost all socio-economic levels.

Key characteristics of the Ranch style of architecture are the following (Gottfried and Jennings 2009; Hess 2004; McAlester 2015):

- One story in height
- Low pitch gabled or hipped roofs constructed with moderate overhangs
- Offset entry points and general façade asymmetry
- Focus on horizontal massing and rambling forms
- Focus on informality
- Main entry typically placed under the roof overhang or tucked into the facade
- Use of variety of window types, including large picture-style windows
- Variations on the eave overhang, typically boxed eaves or exposed rafter tails, or the less-common boxed rafters
- Large chimneys made of brick or stone
- Traditional exterior cladding, including brick veneer, wood siding, and stone veneer
- Attached garage or carport, typically incorporated into the façade
- Front and rear yards
- Simple floor plans based on rectangular blocks, usually L, U, or T shaped in plan

**Significance Evaluation**

The following presents an evaluation of the subject property in consideration of CRHR and City of Santa Ana designation criteria.

***CRHR Criterion 1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.***

The subject property was constructed in circa 1957, a decade before the time when Santa Ana was experiencing rapid residential development. Based on historic aerial photography, at the time of the subject property's construction, residential construction was beginning to replace the agricultural orchards that covered the land before. Archival research revealed that the subject property was constructed and owned by the same family for most of its history. While the subject property was constructed when most of the surrounding land was still being used for agricultural purposes, it was not the only residence constructed during this time. It is also not associated with the larger residential building boom that happened in the following decades. Archival research also failed to indicate that the property was associated with any specific events in the City, region, or state. Therefore, the subject property is recommended not eligible under CRHR Criteria 1.

***CRHR Criterion 2. Is associated with the lives of persons important in our past.***

The subject property was constructed and owned by the Newcomb family until it was sold in 2021. Members of the Newcomb family included Robert and his wife Doris, who were both originally from Orange County. Robert's brother Fred Newcomb was also associated with the property, as well as another family member, Andrea Newcomb. Archival research did not reveal any significant information regarding any of the Newcomb family members associated with the property. Therefore, the subject property is recommended not eligible under CRHR Criterion 2.

***CRHR Criterion 3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.***

***City Criterion 1. Buildings, structures or objects with distinguishing characteristics of an architectural style or period, that exemplify a particular architectural style or design features.***

***City Criterion 2. Works of notable architects, builders, or designers whose style influenced architectural development.***

***City Criterion 3. Rare buildings, structures, or objects or original designs.***

The subject property was constructed circa 1957 in the Ranch style of architecture. The subject property retains several character-defining features of the style including being one story in height, a low-pitch gable roof with moderate overhangs, offset entry points, asymmetrical façade, horizontal form, large picture windows, variety of exterior cladding, a large chimney, and front and rear yards. Despite the subject property's relatively high integrity of original materials, design, and workmanship, it is not considered an important or valuable example of the Ranch style of architecture, which produced countless examples of the rambling ranch in post-war development throughout Southern California and the United States. While the building does possess many of the character-defining features of the Ranch style of architecture, it is not unique or innovative in its design and therefore does not rise to the level of significance required for individual building designation

under this criterion. Furthermore, much of the surrounding area has been developed with shopping centers and multi-unit housing developments built throughout various decades, which creates very little cohesion in time period or style. Therefore, the property has no potential to contribute to a potential historic district.
In addition, the subject property was not found to be the work of a notable architect, builder or designer. Therefore, the subject property is recommended not eligible under CRHR Criterion 3 and City Criteria 1, 2, or 3.

***CRHR Criterion 4. Has yielded, or may be likely to yield, information important in prehistory or history.***

The subject property is not significant as a source, or likely source, of important historical information nor does it appear likely to yield important information about historic construction methods, materials or technologies. Therefore, the property is not recommended eligible under CRHR Criterion 4.

***City Criterion 4. Buildings, structures, objects or sites of historical significance which include places:***

- ***a. Where important events occurred;***
- ***b. Associated with famous people, original settlers, renowned organizations and businesses;***
- ***c. Which were originally present when the city was founded; or***
- ***d. That served as important centers for political, social, economic, or cultural activity.***

Archival research did not reveal that that the subject property was a place where important events occurred. The property was only associated with eh Newcomb family, who were from Orange County, but were not pioneers. Nor were they associated with renowned organizations or business. The subject property was constructed circa 1957 and therefore was not present when the City was founded in 1869. It served as a private residence for most of its history and was not known to serve as an important center for political, social, economic, or cultural activity. Therefore, the property is not recommended eligible under City Criterion 4.

***City Criterion 5. Sites of archaeological importance.***

The subject property is not known to be a site of archaeological importance. Therefore, the property is not recommended eligible under City Criterion 5.

***City Criterion 6. Buildings or structures that were connected with a business or use which was once common, but is now rare.***

The subject property was constructed and used as a private residence. Archival research did not reveal that it was connected with a business or use which was once common but is now rare. Therefore, the property is not recommended eligible under City Criterion 6.

**Integrity**

**Location:** The subject property retains integrity of location. The property is sited in the original location it was constructed in its original orientation.

**Design:** The subject property retains integrity of design. It retains its original footprint and features.

**Setting:** The subject property does not retain integrity of setting. When the property was constructed circa 1957, the area surrounding the property was predominately orchards. In the decades following the subject property's construction, the area developed from orchards and agricultural land to residential and commercial use.

**Materials:** The subject property retains integrity of materials as almost all original materials are intact.

**Workmanship:** The subject property retains integrity of workmanship, as the overall lack of modifications reflects its original workmanship.

**Feeling:** The subject property no longer retains its original integrity of feeling, as it was originally constructed when the area was primarily agricultural, but it is now within a large development of the City that is densely residential and commercial in use.

**Association:** The subject property lacks integrity of association. The property has no important associations with events, people, or important patterns of development in the City.

For all of the reasons provided above, the property at 2109 East Santa Clara Avenue is not eligible for CRHR or local designation.

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**ATTACHMENT B.**

**Resumes**

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Mobile: 760-334-3355

# Sarah Corder, MFA

PRINCIPAL ARCHITECTURAL HISTORIAN

Sarah Corder is the principal architectural historian at South Environmental with 18 years' experience throughout the United States in all elements of cultural resources management, including project management, community engagement, intensive-level field investigations, citywide survey, architectural history studies, and historical significance evaluations in consideration of the California Register of Historical Resources (CRHR), the National Register of Historic Places (NRHP), and local-level evaluation criteria. Ms. Corder has conducted thousands of historical resource evaluations and developed detailed historic context statements for a multitude of property types and architectural styles, including private residential, commercial, industrial, educational, and agricultural properties. She has also provided expertise on numerous projects requiring conformance with the Secretary of the Interior's Standards for the Treatment of Historic Properties.

Ms. Corder meets the Secretary of the Interior's Professional Qualification Standards for both Architectural History and History. She has experience preparing environmental compliance documentation in support of projects that fall under the California Environmental Quality Act (CEQA)/National Environmental Policy Act (NEPA), and Sections 106 and 110 of the National Historic Preservation Act.

## EXPERTISE

- CEQA, NEPA, and Section 106 of the NHPA compliance documentation in consideration of impacts to historical resources, and historic properties.
- Large scale historic resources survey management and execution.
- Large scale historic context statement development.
- Community engagement.
- Resource significance evaluations in consideration of NRHP, CRHR, and local designation criteria.
- Project design review for conformance with the Secretary of the Interior's Standards.

## EDUCATION

M.F.A., Historic Preservation, Savannah College of Art and Design, Savannah, Georgia, 2004

B.A., History, Bridgewater College, Bridgewater, Virginia, 2002

## PROFESSIONAL AFFILIATIONS

California Preservation Foundation

Los Angeles Conservancy

Society of Architectural Historians

National Trust for Historic Preservation

## PROFESSIONAL EXPERIENCE

South Environmental (2022-present), Principal Architectural Historian

Dudek (2017-2022), Historic Built Environment Lead

SWCA Environmental Consultants (2009-2014), Architectural Historian/Project Coordination Lead

Sabe Preservation Consulting (2004-2009), Historic Preservation Specialist

## Recent Project Experience

**Peer Review for Fullerton College Performing Arts Complex project, City of Fullerton, California (2022).** South Environmental was retained by Fullerton College to prepare a peer review and conformance review of a proposed Performing Arts Complex project on the campus. This analysis included review of a previously prepared SOIS conformance review and proposed building plans. The peer review concluded that the project was not in conformance with the SOIS and design recommendations were developed to achieve conformance.

**Historical Resources Avoidance and Protection Plan for Upper and Lower Arroyo Trail Improvements, City of Pasadena, California (2022).** South Environmental was retained by Psomas to prepare an Historical Resources Avoidance and Protection Plan for the One Arroyo Trail Demonstration Project located in the City of Pasadena, California. The project proposes to make improvements to existing trails, walls, bridges, and related elements that fall within the NRHP Pasadena Arroyo Parks and Recreation District, which includes the Lower Arroyo and Central Arroyo as well as numerous contributing elements comprising buildings, sites, landscape elements, and structures throughout. This project included a review of all proposed plans for SOIS conformance and conformance with the Arroyo Seco Design Guidelines and development of an Avoidance and Protection Plan to mitigate any significant impacts to the historic district.

**Historic Resource Assessment for 1501 North Marlay Drive, City of Los Angeles, California (2022).** South Environmental was retained by EcoTierra Consulting to complete an Historic Resources Assessment Report (HRA) for a property located at 1501 North Marlay Drive in the City of Los Angeles, California. This study was prepared by qualified architectural historians in conformance with California Environmental Quality Act (CEQA) Guidelines § 15064.5 for historical resources and the City of Los Angeles Cultural Heritage Ordinance. The primary focus of the HRA was the analysis of the proposed project's potential to impact the Stahl House, also known as Case Study House #22, an iconic International-style residence and historical resource located directly above the project site at 1635 Woods Drive. The proposed project plans and renderings were reviewed by qualified architectural historians to determine if the proposed project would have an adverse effect on any significant viewsheds to or from the Stahl House. A survey of the project site and surrounding viewsheds to and from the Stahl House, and review of countless photographs of the property's iconic viewsheds indicated that the proposed development at 1501 Marlay Drive has no potential to impact any of the Stahl House's significant viewsheds.

**Historical Analysis for 315 Olive Avenue, City of Carlsbad, California (2022).** South Environmental was retained by Kirk Moeller Architects to prepare an historical analysis for the 315 Olive Avenue, located in the City of Carlsbad, San Diego County, California. This analysis includes the results of an intensive-level, pedestrian survey of the project site by a qualified architectural historian; building development and archival research; and recordation and evaluation of one property for historical significance in consideration of NRHP, CRHR, and City of Carlsbad historic resources inventory (HRI) designation criteria and integrity requirements. As a result of the property significance evaluation, the property was recommended eligible for designation in the NRHP at the local level, the CRHR, and the City's HRI under NRHP Criterion C, CRHR Criterion 3, and City Criterion C for its architectural merit.

**Built Environment Inventory and Evaluation Report for Former Navy Property Restoration Project, Port of Hueneme, California (2022).** While working for her previous firm, Ms. Corder served as the Principal Architectural Historian, task manager, and report author for the project. The project included the preparation of a Built Environment Inventory and Evaluation report for the proposed Former Navy Property Restoration Project. The purpose of the proposed project is to demolish existing

buildings on a 1.7-acre area (proposed project site) that would then be graded and paved for use in ongoing Port operations. The project included evaluate of all Port properties older than 45-years located within and adjacent to the proposed project site that may be subject to direct or indirect impacts from the proposed project.

**Los Angeles County Metro Area Plan Project, Historic Context Statement, Los Angeles County, California (2022).** While working for her previous firm, Ms. Corder served as the Principal Architectural Historian, task manager, client contact, community engagement lead, and report author for the project. The project included the preparation of a historic context statement for seven communities within the Metro Planning Area. The HCS documented the development history of the communities from the rancho period to the present, identifies important themes, events, patterns of development, and describes the different property types, styles, builders, and architects associated with these important periods and themes. The document also provided registration requirements and recommendations for future study/action by the County of Los Angeles to facilitate and streamline the historic preservation program.

**Los Angeles County Florence-Firestone Community Plan Area Historic Resources Survey, Los Angeles County, California (2022).** While working for her previous firm, Ms. Corder served as the Principal Architectural Historian, task manager, client contact, community engagement lead, and report author for the project. The project included the preparation of a historic context statement and the completion of a historic resources survey for the community of Florence-Firestone in Los Angeles County. The historic resources survey report documented the development history of the community from the rancho period to the present, identify important themes, events, patterns of development, and describes the different property types, styles, builders, and architects associated with these important periods and themes. The document will also provide registration requirements and recommendations for future study/action by the County of Los Angeles to facilitate and streamline the historic preservation program.

**Los Angeles Department of Water and Power Century Trunk Line, Los Angeles Department of Water and Power, City of Los Angeles, California (2021).** While working for her previous firm, Ms. Corder served as the Principal Architectural Historian for the project. The project included the preparation of an Avoidance and Protection Plan for Air Raid Siren No. 150 and construction monitoring of the resource. The resource is eligible for the NRHP and CRHR and as a City of Los Angeles Historic-Cultural Monument under Criteria A/1/1 and C/3/3 for its association with World War II and Cold War military infrastructure.

**The Santa Monica City Yards Master Plan Project, City of Santa Monica, California (2017).** While working for her previous firm, Ms. Corder served as the Senior Architectural Historian for a cultural resources study for the proposed City Yards Master Plan project site located at 2500 Michigan Avenue. The study involved evaluation of the entire City Yards site, including two murals and a set of concrete carvings, for historical significance and integrity. As a result, the City Yards and its associated public art work was found ineligible under all designation criteria.

**LADWP West Los Angeles District Yard Project, City of Los Angeles, Los Angeles County, California (2017). While working at her previous firm, Ms. Corder served as the Architectural Historian for** a cultural resources study for a project that proposes demolition of five LADWP-owned administrative buildings and warehouses at the West Los Angeles District Headquarters located at 12300 West Nebraska Avenue. The yard was evaluated for historical significance in consideration of NRHP, CRHR, and City of Los Angeles Historic-Cultural Monument criteria and integrity requirements.

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# Marlena Krcelich, BA

ARCHITECTURAL HISTORIAN

Marlena Krcelich is an Architectural Historian at South Environmental with a background in historic preservation, advocacy, and hands-on conservation work. She has experience in cultural resources preservation including identification, research, writing, historical significance evaluations in consideration of the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and local-level designation criteria, and has experience working with local Mills Act program requirements.

Ms. Krcelich meets the Secretary of the Interior's Professional Qualification Standards for Architectural History. She has knowledge and experience regarding Section 106 of the NHPA, NEPA, and CEQA compliance, and mitigation.

## EXPERTISE

- Resource significance evaluations in consideration of NRHP, CRHR, and local designation criteria.
- Project design review for conformance with the Secretary of the Interior's Standards.
- Assistance with project mitigation.

## SPECIALIZED TRAINING

- U.S. Department of Transportation Federal Highway Administration Section 106 Tutorial, 2022
- Introduction to Preservation Law & Easements, NTHP, 2021
- Commission Assistance and Mentoring Program, National Alliance of Preservation Commissions, 2020
- Taking Stock of the Secretary of the Interior' s Standards, CPF, 2020
- Section 106 and NEPA, Advisory Council on Historic Preservation, 2019

## EDUCATION

B.A., History of Architecture, Minor in Architecture with a focus in Construction Management, Syracuse University, 2019

## PROFESSIONAL AFFILIATIONS

California Preservation Foundation

National Trust for Historic Preservation

## PROFESSIONAL EXPERIENCE

Save Our Heritage Organisation (2019-2022), Historic Preservation Specialist and Education Coordinator

Preservation Alliance for Greater Philadelphia (2018), Preservation Easement Intern

Fairmount Park Conservancy (2017), Conservation Apprentice

## PROJECT EXPERIENCE

**Cultural Resources Technical Report for the 314 Date Avenue Project, City of Carlsbad, California (2023).** South Environmental was retained by Don L. Looney, Architect to prepare a historical analysis for the 314 Date Avenue Project, located in the City of Carlsbad, San Diego County, California. This analysis included the results of an intensive-level, pedestrian survey of the project site by a qualified architectural historian; building development and archival research; and recordation and evaluation of one property for historical significance in consideration of CRHR, and City of Carlsbad historic resources inventory (HRI) designation criteria and integrity requirements. As a result of the property significance evaluation, the property was recommended not eligible under any criteria. Ms. Krcelich served as the Architectural Historian for the project and conducted the survey and prepared all deliverables.

**Historical Analysis of 2879-2885 Hope Avenue, City of Carlsbad, California (2023).** South Environmental was retained by Kirk Moeller Architects to prepare a historical analysis for the 2879-2885 Hope Avenue Project, located in the City of Carlsbad, San Diego County, California. This analysis included the results of an intensive-level, pedestrian survey of the project site by a qualified architectural historian; building development and archival research; and recordation and evaluation of one property for historical significance in consideration of CRHR, and City of Carlsbad historic resources inventory (HRI) designation criteria and integrity requirements. As a result of the property significance evaluation, the property was recommended not eligible under any criteria. Ms. Krcelich served as the Architectural Historian for the project and conducted the survey and prepared all deliverables.

**Historic Structures /Site Report Phase II for the 3237 State Street Project, Santa Barbara, Santa Barbara County, California (2023).** South Environmental was retained by American Indian Health and Services to prepare a Historic Structures/Sites Report (HSSR) Phase II for the Fremont Hall Untied States Army Reserve Center located at 3237 State Street. South Environmental reviewed the proposed project design plans for conformance with the Secretary of the Interiors Standards for the Treatment of Historic Properties to ensure that project-related impacts to the historic resources are less than significant. All proposed new construction and modification for the Fremont Hall USAR Center was found to be in conformance with the SOIS for Rehabilitation. South Environmental also provided a list of recommendations to ensure protection of the property during all project-related construction activities. Ms. Krcelich served as the Architectural Historian for the project and prepared all deliverables.

**Historic Structures/Sites Report for the 17-21 West Montecito Street Project, Santa Barbara, Santa Barbara County, California (2023).** South Environmental was retained by CAM Land Use and Development to prepare a Historic Structures/Sites Report in support of the 17-21 West Montecito Street Project. Two built environment resources over 45 years old were identified, recorded, and evaluated within the project site. The resources were evaluated for historical significance in consideration of CRHR and City designation criteria As a result of the property significance evaluation, the properties were not recommended not eligible under any criteria. Ms. Krcelich served as the Architectural Historian for the project and prepared all deliverables.

**Historical Resource Research Report for the 242-258 Rosemont Street Project, San Diego, San Diego County, California (2023).** South Environmental was retained by Paragon Real Estate Investments to prepare a Historical Resource Research Report in support of the 242-258 Rosemont Street Project. Two built environment resources over 45 years old within the project site were identified and recorded. The resources were evaluated for historical significance in consideration of NRHP, CRHR and City designation criteria and integrity requirements and were found not eligible under all

designation criteria and integrity requirements. The proposed project was found to have a less than significant impact on historical resources under CEQA. Ms. Krcelich served as the Architectural historian for the project and prepared all deliverables.

**Historical Resource Research Report for the 2125 5th Avenue Project, San Diego, San Diego County, California (2023).** South Environmental was retained by a property owner to prepare a Historical Resource Research Report in support of the 2125 5th Avenue Project. One built environment resource over 45 years old within the project site was identified and recorded. The resource was evaluated for historical significance in consideration of NRHP, CRHR and City designation criteria. The subject property was found eligible for designation in the NRHP, the CRHR, and as a City of San Diego Historical Resource under NRHP Criterion C, CRHR Criterion 3, and City Criterion C and D for its architectural merit and association with Master Architect Louis J. Gill. The subject property was determined a historical resource per CEQA Guidelines § 15064.5. Ms. Krcelich served as the Architectural historian for the project and prepared all deliverables.

**Historic Resources Technical Report for the West Wind Drive-In Project, City of Goleta, Santa Barbara County, California (2023).** South Environmental was retained by Dudek to prepare a Historic Resources Technical Report in support of the West Wind Drive-In Project. One built environment resource over 45 years old within the project site was identified and recorded that included a drive-in screen and accessory buildings related to the property type. The resources were evaluated for historical significance in consideration of NRHP, CRHR and City designation criteria and integrity requirements and were found not eligible under all designation criteria and integrity requirements. The proposed project was found to have a less than significant impact on historical resources under CEQA. Ms. Krcelich served as the Architectural Historian for the project and prepared all deliverables.

**Historical Resources Evaluation Report for the I-5 Improvement Project (San Diego County Line to Avenida Pico), City of San Clemente, Orange County, California (2022).** South Environmental was retained by LSA Associates to prepare a Historical Resource Evaluation Report in support of the I-5 Improvement Project in the City of San Clemente. South Environmental carried out a survey of the I-5 corridor from the San Diego County line to Avenida Pico in the City of San Clemente and identified six built environment resources over 45 years old. The resources were evaluated for historical significance in consideration of NRHP, CRHR and City designation criteria and integrity requirements and were found not eligible under all designation criteria and integrity requirements. The proposed project was found to have a less than significant impact on historical resources under CEQA. Ms. Krcelich served as the Architectural Historian for the project and co-authored all deliverables.

**Historical Analysis of 315 Olive Avenue, City of Carlsbad, California (2022).** South Environmental was retained by Kirk Moeller Architects to prepare an historical analysis for the 315 Olive Avenue, located in the City of Carlsbad, San Diego County, California. This analysis included the results of an intensive-level, pedestrian survey of the project site by a qualified architectural historian; building development and archival research; and recordation and evaluation of one property for historical significance in consideration of NRHP, CRHR, and City of Carlsbad historic resources inventory (HRI) designation criteria and integrity requirements. As a result of the property significance evaluation, the property was recommended eligible for designation in the NRHP at the local level, the CRHR, and the City's HRI under NRHP Criterion C, CRHR Criterion 3, and City Criterion C for its architectural merit. Ms. Krcelich served as the Architectural Historian for the project and conducted the survey and prepared all deliverables.

# APPENDIX D

# ENERGY CALCULATIONS AND DATA

# Energy Use Summary

| Construction Phase (gallons/construction perioc | Gasoline | Diesel |
|---|---|---|
| Construction Vehicles | 93 | 1,508 |
| Worker Trips | 256 | 1 |
| Vendor Trips | 31 | 0 |
| Haul Trucks | 0 | 72 |
| **Total** | **381** | **1,581** |

| | | | | Natural Gas | |
|---|---|---|---|---|---|
| **Operations Phase (gallons/year)** | | **Gasoline** | **Diesel** | **(kBTU/yr)** | **Electricity (kWh/yr)** |
| Fast Food Restaurant with Drive Thru | | 110,363 | 9,395 | 10,809,840 | 3,512,760 |
| | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 |
| **All Land Uses** | | **110,363** | **9,395** | **10,809,840** | **3,512,760** |

## Operations Onroad Energy Use

Year 2024

| Vehicle Types | MPG by Fuel Type | | | | | Population by Fuel Type | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | Gasoline | Diesel | Electricity | Natural Gas | Pluq-in Hybrid | Gasoline | Diesel | Electricity | Natural Gas | Pluq-in Hybrid | Total |
| LDA | 29.3 | 41.2 | 0.4 | 0.000 | 28.2 | 5,451,205 | 15,009 | 284,963 | 0 | 152,679 | 5,903,856 |
| LDT1 | 24.4 | 23.4 | 0.4 | 0.000 | 28.0 | 505,255 | 186 | 1,243 | 0 | 739 | 507,423 |
| LDT2 | 23.9 | 31.9 | 0.4 | 0.000 | 27.9 | 2,551,917 | 8,409 | 16,572 | 0 | 21,729 | 2,598,626 |
| LHDT1 | 13.6 | 20.5 | 0.6 | 0.000 | 0.0 | 205,772 | 107,344 | 793 | 0 | 0 | 313,909 |
| LHDT2 | 11.9 | 17.3 | 0.6 | 0.000 | 0.0 | 32,210 | 47,494 | 205 | 0 | 0 | 79,909 |
| MCY | 41.5 | 0.0 | 0.0 | 0.000 | 0.0 | 248,270 | 0 | 0 | 0 | 0 | 248,270 |
| MDV | 19.5 | 23.7 | 0.4 | 0.000 | 27.6 | 1,622,854 | 20,420 | 18,088 | 0 | 13,081 | 1,674,443 |
| MH | 4.9 | 10.1 | 0.0 | 0.000 | 0.0 | 30,227 | 12,282 | 0 | 0 | 0 | 42,510 |
| MHDT | 5.2 | 8.9 | 1.0 | 8.3 | 0.0 | 25,496 | 117,140 | 365 | 1,526 | 0 | 144,526 |
| HHDT | 4.0 | 6.1 | 1.8 | 6.0 | 0.0 | 66 | 101,735 | 317 | 10,386 | 0 | 112,504 |
| OBUS | 5.1 | 7.0 | 1.1 | 8.8 | 0.0 | 5,427 | 3,049 | 12 | 487 | 0 | 8,975 |
| SBUS | 8.9 | 7.3 | 1.2 | 4.2 | 0.0 | 2,859 | 3,436 | 23 | 3,247 | 0 | 9,564 |
| UBUS | 7.0 | 6.6 | 2.1 | 3.2 | 0.0 | 894 | 14 | 132 | 5,035 | 0 | 6,076 |
| | | | | | | 10682454.0 | 436517.7 | 322712.3 | 20680.7 | 188228.4 | 11650593.1 |

| Trips/Day<br>Land Use | Trips/day<br>Weekday | Trips/day<br>Saturday | Trips/day<br>Sunday | Total<br>Weekly | VMT/day<br>Weekday | VMT/day<br>Saturday | VMT/day<br>Sunday | Trip Length |
|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 929.991 | 1216.668 | 933.2107500000 | 6799.83375 | 7,764 | 10,158 | 7,791 | 8.35 |
| | | | | 0 | 0 | 0 | 0 | - |
| | | | | 0 | 0 | 0 | 0 | - |
| | | | | 0 | 0 | 0 | 0 | - |
| | | | | 0 | 0 | 0 | 0 | - |
| Parking Lot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | - |
| **Total** | **0** | **0** | **0** | | | | | |

**Fleet Mix**

| Land Use | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 1% | 50% | 4% | 23% | 3% | 1% | 2% | 14% | 0% | 2% | 0% | 0% | 0% | 100.0% |
| | | | | | | | | | | | | | | 0.0% |
| | | | | | | | | | | | | | | 0.0% |
| | | | | | | | | | | | | | | 0.0% |
| | | | | | | | | | | | | | | 0.0% |
| | | | | | | | | | | | | | | 0.0% |

### Vehicle Trips

| Weekday Trips | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 5 | 467 | 39 | 213 | 25 | 6 | 20 | 134 | 4 | 14 | 1 | 1 | 0 | 930 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Parking Lot | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **5** | **467** | **39** | **213** | **25** | **6** | **20** | **134** | **4** | **14** | **1** | **1** | **0** | **930** |

| Saturday Trips | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 7 | 611 | 51 | 279 | 33 | 8 | 26 | 175 | 5 | 18 | 1 | 1 | 0 | 1,217 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **7** | **611** | **51** | **279** | **33** | **8** | **26** | **175** | **5** | **18** | **1** | **1** | **0** | **1,217** |

| Sunday Trips | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 5 | 469 | 39 | 214 | 25 | 6 | 20 | 135 | 4 | 14 | 1 | 1 | 0 | 933 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | **5** | **469** | **39** | **214** | **25** | **6** | **20** | **135** | **4** | **14** | **1** | **1** | **0** | **933** |

### Gallons of Fuel

| Gasoline | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 2 | 46,720 | 5,086 | 27,750 | 3,851 | 683 | 1,536 | 21,200 | 1,671 | 1,530 | 215 | 95 | 22 | 110,363 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | **2** | **46,720** | **5,086** | **27,750** | **3,851** | **683** | **1,536** | **21,200** | **1,671** | **1,530** | **215** | **95** | **22** | **110,363** | **Total Gallons Gasoline** |

| Diesel | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 2,364 | 91 | 2 | 69 | 1,334 | 697 | 0 | 219 | 326 | 4,065 | 87 | 140 | 0 | 9,395 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | **2,364** | **91** | **2** | **69** | **1,334** | **697** | **0** | **219** | **326** | **4,065** | **87** | **140** | **0** | **9,395** | **Total Gallons Diesel** |

| Electricity | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 25 | 185,408 | 791 | 11,175 | 362 | 93 | 0 | 11,914 | 0 | 108 | 2 | 6 | 11 | 209,894 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | **25** | **185,408** | **791** | **11,175** | **362** | **93** | **0** | **11,914** | **0** | **108** | **2** | **6** | **11** | **209,894** | **Total Electricity (kWh)** |

| Natural Gas | HHDT | LDA | LDT1 | LDT2 | LHDT1 | LHDT2 | MCY | MDV | MH | MHDT | OBUS | SBUS | UBUS | Total | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fast Food Restaurant with Drive Thr | 245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 11 | 229 | 279 | 821 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | **245** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **57** | **11** | **229** | **279** | **821** | **Total Natural Gas** |

# Utilities

| Land Use | NaturalGas Use kBTU/yr | Electricity Use kWh/yr |
|---|---|---|
| Fast Food Restaurant with Drive | 10809840 | 3512760 |
| **Total** | **10,809,840** | **3,512,760** |

## Offroad Construction Equipment Energy Use

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per | Hours Per Day | Horsepower | Load Factor | Horsepower Category | Num Days | Year | Fuel Consumption Rate (gal/hour) | Fuel Type | Total Fuel Consumption (gal/construction period) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Demolition | Excavators | Diesel | Average | 1 | 8 | 36 | 0.38 | 175 | 16 | 2024 | 2.9 | Diesel | 140 |
| Demolition | Skid Steer Loaders | Diesel | Average | 2 | 8 | 71 | 0.37 | 50 | 16 | 2024 | 0.9 | Diesel | 88 |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel | Average | 1 | 8 | 84 | 0.37 | 100 | 6 | 2024 | 1.6 | Diesel | 28 |
| Grading | Tractors/Loaders/Backhoes | Diesel | Average | 1 | 7 | 84 | 0.37 | 100 | 11 | 2024 | 1.6 | Diesel | 45 |
| Grading | Excavators | Diesel | Average | 1 | 8 | 36 | 0.38 | 175 | 11 | 2024 | 2.9 | Diesel | 97 |
| Grading | Skid Steer Loaders | Diesel | Average | 1 | 8 | 71 | 0.37 | 50 | 11 | 2024 | 0.9 | Diesel | 30 |
| Building Construction | Cranes | Diesel | Average | 1 | 4 | 367 | 0.29 | 300 | 61 | 2024 | 3.3 | Diesel | 231 |
| Building Construction | Forklifts | Diesel | Average | 3 | 6 | 82 | 0.2 | 100 | 61 | 2024 | 2.0 | Diesel | 440 |
| Building Construction | Cement and Mortar Mixers | Diesel | Average | 1 | 6 | 10 | 0.56 | 25 | 61 | 2024 | 0.4 | Gasoline | 79 |
| Building Construction | Rough Terrain Forklifts | Diesel | Average | 1 | 8 | 96 | 0.4 | 100 | 61 | 2024 | 0.9 | Diesel | 167 |
| Paving | Cement and Mortar Mixers | Diesel | Average | 1 | 6 | 10 | 0.56 | 25 | 11 | 2024 | 0.4 | Gasoline | 14 |
| Paving | Pavers | Diesel | Average | 1 | 7 | 81 | 0.42 | 100 | 11 | 2024 | 1.7 | Diesel | 56 |
| Paving | Rollers | Diesel | Average | 1 | 7 | 36 | 0.38 | 100 | 11 | 2024 | 1.7 | Diesel | 50 |
| Paving | Sweepers/Scrubbers | Diesel | Average | 1 | 8 | 36 | 0.46 | 75 | 11 | 2024 | 1.7 | Diesel | 68 |
| Architectural Coating | Air Compressors | Diesel | Average | 1 | 6 | 37 | 0.48 | 100 | 6 | 2024 | 1.3 | Diesel | 23 |
| Architectural Coating | Paving Equipment | Diesel | Average | 1 | 8 | 89 | 0.36 | 100 | 6 | 2024 | 1.6 | Diesel | 28 |
| Architectural Coating | Rough Terrain Forklifts | Diesel | Average | 1 | 8 | 96 | 0.4 | 100 | 6 | 2024 | 0.9 | Diesel | 16 |

| | | |
|---|---|---|
| **Total** | **Gasoline** | **93** |
| **Total** | **Diesel** | **1,508** |
| | | 1,602 |

# Onroad Construction Energy Use

Year 2024

| Vehicle Types | MPG by Fuel Type | | | | | Population by Fuel Type | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gasoline | Diesel | Electricity | Natural Gas | Plug-in Hybrid | Gasoline | Diesel | Electricity | Natural Gas | Plug-in Hybrid | Total |
| LDA | 29.3 | 41.2 | 0.4 | 0.000 | 28.2 | 5,451,205 | 15,009 | 284,963 | 0 | 152,679 | 5,903,856 |
| LDT1 | 24.4 | 23.4 | 0.4 | 0.000 | 28.0 | 505,255 | 186 | 1,243 | 0 | 739 | 507,423 |
| LDT2 | 23.9 | 31.9 | 0.4 | 0.000 | 27.9 | 2,551,917 | 8,409 | 16,572 | 0 | 21,729 | 2,598,626 |
| LHDT1 | 13.6 | 20.5 | 0.6 | 0.000 | 0.0 | 205,772 | 107,344 | 793 | 0 | 0 | 313,909 |
| LHDT2 | 11.9 | 17.3 | 0.6 | 0.000 | 0.0 | 32,210 | 47,494 | 205 | 0 | 0 | 79,909 |
| MCY | 41.5 | 0.0 | 0.0 | 0.000 | 0.0 | 248,270 | 0 | 0 | 0 | 0 | 248,270 |
| MDV | 19.5 | 23.7 | 0.4 | 0.000 | 27.6 | 1,622,854 | 20,420 | 18,088 | 0 | 13,081 | 1,674,443 |
| MH | 4.9 | 10.1 | 0.0 | 0.000 | 0.0 | 30,227 | 12,282 | 0 | 0 | 0 | 42,510 |
| MHDT | 5.2 | 8.9 | 1.0 | 8.3 | 0.0 | 25,496 | 117,140 | 365 | 1,526 | 0 | 144,526 |
| HHDT | 4.0 | 6.1 | 1.8 | 6.0 | 0.0 | 66 | 101,735 | 317 | 10,386 | 0 | 112,504 |
| OBUS | 5.1 | 7.0 | 1.1 | 8.8 | 0.0 | 5,427 | 3,049 | 12 | 487 | 0 | 8,975 |
| SBUS | 8.9 | 7.3 | 1.2 | 4.2 | 0.0 | 2,859 | 3,436 | 23 | 3,247 | 0 | 9,564 |
| UBUS | 7.0 | 6.6 | 2.1 | 3.2 | 0.0 | 894 | 14 | 132 | 5,035 | 0 | 6,076 |
| | | | | | | 10,682,454 | 436,518 | 322,712 | 20,681 | 188,228 | 11,650,593 |

| Daily Trips | | | | | | | Gasoline Consumption | | | Diesel Consumption | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phase Name | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker | Vendor | Haul | Worker | Vendor | Haul |
| Site Preparation | 3 | 0 | 4 | 18.5 | 10.2 | 20 | | | | | | |
| Grading | 8 | 0 | 0 | 18.5 | 10.2 | 20 | | | | | | |
| Building Construction | 2 | 1 | 0 | 18.5 | 10.2 | 20 | | | | | | |
| Paving | 10 | 0 | 0 | 18.5 | 10.2 | 20 | | | | | | |
| Architectural Coating | 0 | 0 | 0 | 18.5 | 10.2 | 20 | | | | | | |
| **Total Trips** | | | | | | | | | | | | |
| Site Preparation | 18 | 0 | 24 | 18.5 | 10.2 | 20 | 14 | 0 | 0 | 0 | 0 | 72 |
| Grading | 88 | 0 | 0 | 18.5 | 10.2 | 20 | 67 | 0 | 0 | 0 | 0 | 0 |
| Building Construction | 122 | 61 | 0 | 18.5 | 10.2 | 20 | 93 | 31 | 0 | 0 | 0 | 0 |
| Paving | 110 | 0 | 0 | 18.5 | 10.2 | 20 | 83 | 0 | 0 | 0 | 0 | 0 |
| Architectural Coating | 0 | 0 | 0 | 18.5 | 10.2 | 20 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Total** | | | | | | | **256** | **31** | **0** | **1** | **0** | **72** |

# APPENDIX E

# GEOTECHNICAL ENGINEERING REPORT

UNIVERSAL
ENGINEERING SCIENCES

# Geotechnical Engineering Report

## Proposed McDonalds Restaurant
## 2109 E Santa Clara Avenue
## Santa Ana, California 92705

**Prepared for:**
**McDonald's USA**
**18565 Jamboree Road, Ste. 850**
**Irvine, CA 92612**

**November 4, 2021**

**Project No.: 4230.2100035.0000**

November 4, 2021
Project No. 4230.2100035.0000

Ms. Christine Cho
**McDonalds USA**
18565 Jamboree Road, Ste. 850
Irvine, CA 92612

**Subject: Geotechnical Engineering Report**
**Proposed McDonald's Restaurant**
**2109 E Santa Clara Avenue,**
**Santa Ana, California 92705**

Dear Ms. Cho:

In accordance with your request and authorization, we are presenting the results of our geotechnical investigation for the proposed project located at 2109 E Santa Clara Avenue in the city of Santa Ana, California 92705. The purpose of this investigation has been to evaluate the subsurface conditions at the site and to provide geotechnical engineering recommendations for the proposed construction.

Based on our findings, the proposed project is geotechnically feasible, provided that the recommendations in this report are incorporated into the design and are implemented during construction of the project. This report was prepared in accordance with the requirements of the 2019 California Building Code.

We appreciate the opportunity to be of service on this project. Should you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Respectfully submitted,

**UNIVERSAL ENGINEERING SCIENCES**

Nadim Sunna, MS, PE, GE 3172
Senior Geotechnical Engineer

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Distribution: one PDF document via email to Addressee

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## 1. INTRODUCTION

This report presents the results of our geotechnical engineering evaluation performed for the proposed single story at-grade McDonald's restaurant and parking lot at 2109 E Santa Clara Avenue, Santa Ana, California (Figure 1, Site Location Map). The purpose of this study has been to evaluate the subsurface conditions at the site and to provide geotechnical recommendations related to the design and construction of the proposed structures.

## 2. SITE DESCRIPTION AND PROPOSED DEVELOPMENT

The project site is located at 2109 E Santa Clara Avenue in the City of Santa Ana, California as shown on Figure 1. At the time of exploration, the subject site was a residential plot with two houses and two detached garages. It is our understanding that the proposed project consists of the development of a single story at-grade McDonald's restaurant and parking lot. The approximate site coordinates are latitude 33.76749°N and longitude 117.83683°W and is located at approximately 188 feet above Mean Sea Level (MSL).

## 3. SCOPE OF WORK

To prepare this report, we have performed the following tasks:

### 3.1. Literature Review

We reviewed readily available background data including in-house geologic maps, topographic maps, and aerial photographs relevant to the subject site in preparation of this report. The list of documents reviewed is presented in the "References" section of this report.

### 3.2. Engineering Analyses and Report Preparation

We compiled and analyzed the data collected from our site reconnaissance, subsurface evaluation, and laboratory testing, and prepared this report to present our conclusions and recommendations, including:

- Evaluation of general subsurface conditions and description of types, distribution, and engineering characteristics of subsurface materials
- Evaluation of site-specific seismic design parameters in accordance with 2019 California Building Code
- Evaluation of current and historic high groundwater conditions at the site and potential impact on the existing structures and site development
- Evaluation of project feasibility and suitability of on-site soils for foundation support
- Evaluation of foundation design parameters including soil bearing capacity, lateral resistance, friction coefficient, and seismic considerations
- Evaluation of the potential for the on-site materials to corrode buried concrete and metals

### 3.3. Field Exploration

The field exploration consisted of excavating five (5) 8-inch-diameter exploratory borings at various locations within the subject site on October 8, 2021. The borings were advanced to depths ranging from 5 to 21.5 feet below the existing grade. The drilling operation was performed using a hollow-stem auger drill rig. The borings were backfilled with the soil cuttings at the end of field exploration.

The approximate locations of the borings are shown on Figure 2 – Site Plan and Boring Location Map. Detailed exploration information of soil borings is presented in Appendix A.

### 3.4. Geotechnical Laboratory Testing

Laboratory tests were performed on selected samples obtained from the borings in order to aid in the soil classification and to evaluate the engineering properties of the foundation soils. Laboratory tests included in-situ moisture and density, #200 sieve wash, sieve analysis, Atterberg limits, direct shear tests, Expansion Index, consolidation, corrosion testing, and R-values. The detailed laboratory test results are presented in Appendix B.

## 4. SITE GEOLOGY AND SUBSURFACE CONDITIONS

### 4.1. Regional Geologic Setting

According to the preliminary geologic map of the Santa Ana Quadrangle (Morton, 2003), the project site is underlain by undifferentiated young alluvial deposit (map symbol: Qyf) that typically consists of unconsolidated to slightly consolidated, undissected to slightly dissected boulders, cobbles, gravels, sands, and silt deposits issued from a confined valley or canyon.

### 4.2. Subsurface Earth Materials

Earth materials encountered during our subsurface investigation consists of fill overlaying the young alluvial fan deposits (Qyf). In general, the soil consists of light brown to brown, dry to damp, medium dense to very dense, clayey and silty sands.

### 4.3. Groundwater

Groundwater was not encountered during our subsurface investigation to a maximum depth of 21.5 feet below the existing grade. Based on our review of nearby well data (Well337646N1178432W002), the highest groundwater level is reportedly situated at a depth of approximately 214 feet below the ground surface, which was recorded on March 12$^{th}$, 2021. Historic high groundwater is 30 feet below the ground surface. Groundwater conditions may vary across the site due to stratigraphic and hydrologic conditions and may change over time as a consequence of seasonal and meteorological fluctuations, or of activities by humans at this and nearby sites. Based on our findings, we note that the potential for groundwater to impact the proposed improvements is considered low.

# 5. GEOLOGIC HAZARDS AND FINDINGS

## 5.1. Surface Fault Rupture

The subject site is not located within a State of California Alquist-Priolo Earthquake Fault Zone (formerly known as a Special Studies Zone) (CGS, 2018). No active faults are known to underlie or project towards the site. It is our opinion that the likelihood of fault rupture occurring at the site during the design life of the proposed improvements is low.

## 5.2. Liquefaction and Seismic Settlement Potential

Liquefaction occurs when the pore pressures generated within a soil mass approach the effective overburden pressure. Liquefaction of soils may be caused by cyclic loading such as that imposed by ground shaking during earthquakes. The increase in pore pressure results in a loss of strength, and the soil then can undergo both horizontal and vertical movements, depending on the site conditions. Other phenomena associated with soil liquefaction include sand boils, ground oscillation, and loss of foundation bearing capacity. Liquefaction is generally known to occur in loose, saturated, relatively clean, fine-grained cohesionless soils at depths shallower than approximately 50 feet. Factors to consider in the evaluation of soil liquefaction potential include groundwater conditions, soil type, grain size distribution, relative density, degree of saturation, and both the intensity and duration of ground motion.

The current standard of practice, as outlined in the “Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California” and “Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California” requires liquefaction analysis to a depth of 50 feet below the lowest portion of the proposed structure. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

A review of the State of California Seismic Hazard Zone Map for the Orange Quadrangle indicates the site is not located within an area identified as having a potential for liquefaction. Additionally, based on the lack of shallow ground water, and uniform soil stratum, the potential for liquefaction to impact the proposed improvements is considered low.

## 5.3. Landslides

Based on our review of the referenced geologic maps, literature, topographic maps, aerial photographs, and our subsurface evaluation, no landslides or related features underlie or are adjacent to the subject site. Due to the relatively level and limited gradient changes of the site and surrounding areas, the potential for landslides at the project site is considered low to negligible.

## 5.4. Flooding

The Federal Emergency Management Agency (FEMA) has prepared flood insurance rate maps (FIRMs) for use in administering the National Flood Insurance Program. Based on our review of the FEMA (2008) flood map, the site is outside the 0.2% annual chance (500-year) floodplain.

### 5.5. Tsunamis and Seiches

Tsunamis are waves generated by massive landslides near or under sea water. The site is not located on any State of California – County of Orange Tsunami Inundation Map for Emergency Planning. The potential for the site to be adversely impacted by earthquake-induced tsunamis is considered to be negligible because the site is located approximately 19 kilometers (12.0 miles) inland from the Pacific Ocean shore, at an elevation exceeding the maximum height of potential tsunami inundation.

Seiches are standing wave oscillations of an enclosed water body after the original driving force has dissipated. The potential for the site to be adversely impacted by earthquake-induced seiches is considered to be low due to the lack of any significant enclosed bodies of water located in the vicinity of the site.

## 6. GEOTECHNICAL ENGINEERING FINDINGS

### 6.1. Rippability

Based on our subsurface exploration of the site, the near-surface materials should be generally excavatable with heavy-duty earthwork equipment in good working condition.

### 6.2. Caving Potential

In general, the near surface sandy soils have a low to moderate potential for caving. We recommend that the geotechnical engineer should be notified immediately if severe caving conditions are encountered during excavations to provide further mitigation recommendations.

### 6.3. Expansive Soils

Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content the onsite fill consists of sandy silt within the soils encountered near the ground surface. Generally, this material exhibits “very low” expansion potential.

### 6.4. Corrosive Soils

The potential for the on-site materials to corrode buried steel and concrete improvements was evaluated. Laboratory testing was performed on representative soil samples to evaluate pH, minimum resistivity, and soluble chloride and sulfate contents. General recommendations to address the corrosion potential of the on-site soils are provided below. Imported fill materials, if used, should be tested to evaluate whether their corrosion potential is more severe than those assumed.

#### 6.4.1. Sulfate Exposure

Laboratory tests indicate that the potential of sulfate attack on concrete in contact with the on-site soils is “negligible” or “S0” exposure in accordance with ACI 318, Table 19.3.1.1. Therefore, restriction on the type of cement, water to cement ratio, and compressive strength is not required from a geotechnical standpoint. Ferrous Metals

The results of the laboratory chemical tests performed on a sample of soil collected within the site indicate that the on-site soils are moderately corrosive to ferrous metals. Consequently, metal structures which will be in direct contact with the soil (i.e., underground metal conduits, pipelines, metal sign posts, etc.) and/or in close proximity to the soil (wrought iron fencing, etc.) may be subject to corrosion. The use of special coatings or cathodic protection around buried metal structures has been shown to be beneficial in reducing corrosion potential. Additional provisions will be required to address high chloride contents of the soil per the 2019 CBC to protect the concrete reinforcement. The laboratory testing program performed for this project does not address the potential for corrosion to copper piping. In this regard, a corrosion engineer should be consulted to perform more detailed testing and develop appropriate mitigation measures (if necessary).

### 6.5. Infiltration Testing

Two (2) preliminary percolation tests were performed on October 9, 2021, to evaluate the potential of infiltrating stormwater into the site soils and determine a preliminary design infiltration rate for initial design of the planned BMPs. The borings are shown on the attached Figure 2 – Site Plan and Boring Location Map, were excavated to depth of 5 feet below the existing grade. The infiltration test data was utilized to determine the preliminary design infiltration rates as provided in Table A below.

**Table A: Preliminary Design Infiltration Rates Summary**

| Boring No. | Depth Below Existing Grade (feet) | Observed Infiltration Rates (inches/hour) |
|---|---|---|
| P-1 | 5 | 0.22 |
| P-2 | 5 | 0.18 |

Based on our preliminary infiltration testing, we note that infiltration of stormwater into the site soils is deemed not feasible. Therefore, alternate means of storing and disposing of stormwater should be evaluated by the project civil engineer. Our percolation testing data is presented within Appendix C, Infiltration Test Result.

## 7. GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

### 7.1. General Conclusion

Based on the results of our field exploration and engineering analyses, it is our opinion that the proposed development is feasible from a geotechnical standpoint, provided that the recommendations in this report are incorporated into the design plans and are implemented during construction.

The following is a summary of the geotechnical considerations for this project:

- Groundwater was not encountered during subsurface investigation, and it is not expected to impact the proposed development.
- Infiltration of stormwater into the site soils is deemed not feasible based on our preliminary testing.

- The site is not subject to liquefaction and associated liquefaction settlement due to the lack of shallow groundwater and uniform soil stratum.
- The potential for landslide, flooding, tsunami and seiches to impact the proposed improvement is considered low.
- The site is not located within an AP Zone, however, it is subject to intense ground shaking during a seismic event.
- The onsite near-surface soils are expected to exhibit a very low expansion potential.
- The onsite near-surface soils are considered to have negligible exposure to sulfate, however, are moderately corrosive to ferrous metals.
- We recommend that new foundations be embedded into engineered fill material.

Our geotechnical engineering analyses performed for this report were based on the earth materials encountered during the subsurface exploration for the site. If the design substantially changes, then our geotechnical engineering recommendations would be subject to revision based on our evaluation of the changes. The following sections present our conclusions and recommendations pertaining to the engineering design for this project.

## 7.2. Site Preparation and Earthwork

In general, earthwork should be performed in accordance with the recommendations presented in this report. UES should be contacted for questions regarding the recommendations or guidelines presented herein.

### 7.2.1. General Grading Recommendations

Site preparation should begin with the removal of utility lines, asphalt, concrete, vegetation, and other deleterious debris from areas to be graded. Tree stumps and roots should be removed to such a depth that organic material is generally not present. Clearing and grubbing should extend to the outside edges of the proposed excavation and fill areas. We recommend that unsuitable materials such as organic matter or oversized material be selectively removed and disposed offsite. The debris and unsuitable material generated during clearing and grubbing should be removed from areas to be graded and disposed at a legal dump site away from the project area.

### 7.2.2. Remedial Grading

Based on our field exploration and engineering analysis, we recommend that the new building foundations be supported on 2 feet of engineered fill material. On this basis, we recommend that the building pad be excavated to 2 feet below the bottom of the footings. The excavation should extend laterally a minimum of 2 feet from the edge of the new footings.

Pavement and/or sidewalk areas should be over-excavated to a depth of at least 12 inches below the bottom of the pavement section (i.e., aggregate base) whichever is lower. Deeper removals may be required in areas where soft, saturated, or unsuitable materials are encountered.

For trash enclosure and site walls foundations, we recommend that the foundations be supported on competent engineered fill.

The extent and depths of removal should be evaluated by soil engineer in the field based on the materials exposed. Additional removals may be recommended if loose or soft soils are exposed during grading.

### 7.2.3. Materials for Fill

On-site soils are suitable to be reused for compaction effort. However, the underlying alluvium with an organic content of less than 3 percent by volume (or 1 percent by weight) are suitable for use as fill. Soil material to be used as fill should not contain contaminated materials, rocks, or lumps over 4 inches in largest dimension, and not more than 40 percent larger than ¾ inch. Utility trench backfill material should not contain rocks or lumps over 3 inches in largest dimension. Larger chunks, if generated during excavation, may be broken into acceptably sized pieces or may be disposed offsite.

Any imported fill material should consist of granular soil having a “very low” expansion potential (that is, expansion index of 20 or less). Import material should also have low corrosion potential (that is, chloride content less than 500 parts per million [ppm], soluble sulfate content of less than 0.1 percent, and pH of 5.5 or higher). Materials to be used as fill should be evaluated by UES prior to importing or filling.

### 7.2.4. Compacted Fill

Prior to placement of compacted fill, the contractor should request an evaluation of the exposed excavation bottom by UES. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 6 inches and watered or dried, as needed, to achieve generally consistent moisture contents of 2 percent above optimum moisture content. The scarified materials should then be compacted to 90 percent relative compaction in accordance with the latest version of ASTM Test Method D1557.

Compacted fill should be placed in horizontal lifts of approximately 6 to 8 inches in loose thickness. Prior to compaction, each lift should be watered or dried as needed to achieve 2 percent above optimum moisture condition, mixed, and then compacted by mechanical methods, using sheepsfoot rollers, multiple-wheel pneumatic-tired rollers, or other appropriate compacting rollers, to a relative compaction of 90 percent as evaluated by ASTM D1557. Successive lifts should be treated in a like manner until the desired finished grades are achieved. Within pavement areas, the upper 12-inches of subgrade soil should be compacted to 95 percent relative compaction evaluated by ASTM D1557.

### 7.2.5. Temporary Excavations

Temporary excavations for the demolition, earthwork, footings, and utility trenches are expected to be up to 4 feet in height. Due to relatively loose condition of shallow onsite soils, temporary, unsurcharged excavation sides should be sloped no steeper than an inclination of 1H:1V (horizontal: vertical). Where sloped excavations are created, the tops of the slopes should be barricaded so that vehicles and storage loads do not encroach within 10 feet of the top of the excavated slopes. A greater setback may be necessary when considering heavy vehicles, such as concrete trucks and cranes. UES should be advised of such heavy vehicle loadings so that specific setback requirements can be established. If the temporary

construction slopes are to be maintained during the rainy season, berms are recommended to be graded along the tops of the slopes in order to prevent runoff water from entering the excavation and eroding the slope faces.

UES should observe the excavations so that any necessary modifications based on variations in the encountered soil conditions can be made. All applicable safety requirements and regulations, including CalOSHA requirements, should be met.

### 7.3. Seismic Design Parameters

Our recommendations for seismic design parameters have been developed in accordance with 2019 CBC and ASCE 7-16 (ASCE, 2016) standards. The applicable site class is D based on the results of our field investigation. Table B: 2019 California Building Code Design Parameters presents the seismic design parameters for the site in accordance with 2019 CBC.

**Table B: 2019 California Building Code Design Parameters**

| Design Parameters | Value |
|---|---|
| Site Class | D |
| Mapped Spectral Acceleration Parameter at Period of 0.2-Second, $S_s$ | 1.324 g |
| Mapped Spectral Acceleration Parameter at Period 1-Second, $S_1$ | 0.472 g |
| Site Coefficient, $F_a$ | 1.0 |
| Site Coefficient, $F_v$ | 1.83 |
| Adjusted $MCE_R$ Spectral Response Acceleration Parameter at Short Period, $S_{MS}$ | 1.324 g |
| 1-Second Period Adjusted $MCE_R$[1] Spectral Response Acceleration Parameter, $S_{M1}$ | 0.864 |
| Short Period Design Spectral Response Acceleration Parameter, $S_{DS}$ | 0.883 |
| 1-Second Period Design Spectral Response Acceleration Parameter, $S_{D1}$ | 0.576 |
| Peak Ground Acceleration, $PGA_M$ | 0.609g |
| Seismic Design Category | D |

Notes: Since the Site Class is designated as D and the S1 value is greater than or equal to 0.2, the 2019 CBC requires either a site-specific seismic hazard analysis per Section 21.2 of ASCE 7-16 or the application of Exception 2 of Section 11.4.8 of ASCE 7-16. The project structural engineer should apply all requirements of Section 11.4.8 of ASCE 7-16.

### 7.4. Foundation Recommendations

A shallow foundation system may be used for support of the proposed building, provided that all the footings are placed on engineered fill prepared as described in the “Remedial Grading” section of this report.

Our geotechnical foundation design parameters are presented in Table C: Geotechnical Design Parameters for Foundation, below.

**Table C: Geotechnical Design Parameters for Foundation**

| Design Parameters | Values |
|---|---|
| **Bearing Material** | • Engineering Fill<br>• See Remedial Grading section of this report. |
| **Minimum Footing Dimensions** | • At least 12 inches in width and at least 18 inches in depth. |
| **Allowable Bearing Pressure** | • An allowable bearing capacity of 2,500 psf may be used for the design of foundations found on engineered fill.<br>• For miscellaneous and lightly-loaded auxiliary foundations such as trash enclosures, an allowable bearing pressure of 1,800 pounds per square foot (psf) may be used.<br>• For light pole foundations that are embedded a minimum of 4 feet below the finish grade, an allowable bearing capacity of 3,000 psf may be used.<br>• The allowable bearing values may be increased by one-third for transient loads from wind or earthquake. |
| **Estimated Static Settlement** | • Less than 1 inches total settlement with differential settlement estimated to be less than 0.5 inch over a span 30 feet. |
| **Allowable Coefficient of Friction Below Footings** | 0.35 |
| **Unfactored Lateral Passive Resistance** | 250 pcf (equivalent fluid pressure)<br>Maximum allowable of 2,500 psf |

As mentioned above, the structural building loads are not provided to us at this time and since the settlement criteria may control the design, the allowable bearing pressure for the proposed foundation may be revisited for the final design, once loading data becomes available.

### 7.5. Concrete Slab-On-Grade

At minimum the building slab-on-grade should be at least 5 inches in thickness and should be reinforcement with a minimum of No. 4 bars spaced at 18 inches on-center. Final design of the slab should be provided by the project structural engineer.

All concrete slabs-on-grade should be supported on vapor retarder. The design of the slab and the installation of the vapor retarder should comply with the most recent revisions of ASTM E 1643 and ASTM E 1745. The vapor retarder should comply with ASTM E 1745 Class A requirements. At minimum, the vapor retarder should consists of 15 mil Stegowrap or equivalent.

Where a vapor retarder is used, a low-slump concrete should be used to minimize possible curling of the slabs. Sand above the vapor retarder is outside of UES purview and should be in accordance with the structural engineer's recommendation.

UES does not practice in the field of moisture vapor transmission evaluation and mitigation. Therefore, it is recommended that a qualified consultant be engaged to evaluate the general and specific moisture vapor transmission paths and any impact on the proposed construction. The qualified consultant should provide recommendations for mitigation of potential adverse impacts of moisture vapor transmission on various components of the structure. Where dampness would be objectionable, it is recommended that the floor slabs should be waterproofed. A qualified waterproofing consultant should be retained in order to recommend a product or method which would provide protection for concrete slabs-on-grade.

The recommendations presented above are intended to reduce the potential for cracking of slabs; however, even with the incorporation of the recommendations presented herein, slabs may still exhibit some cracking. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics.

### 7.6. Flexible Pavement Design

Our pavement structural design is in accordance with Chapter 600 of the Caltrans Highway Design Manual, which is based on a relationship between the gravel equivalent (GE) of the pavement structural materials, the traffic index (TI), and the R-value of the underlying subgrade soil.

Based on an R-value test result of 17 and an assumed TI's of 4, 5.5 and 7, we have determined the minimum structural sections as provided within Table C below. The assumed R-value should be verified during rough grading by UES prior to placement of the aggregate base.

**Table D – Recommended Minimum HMA and Base Section Thicknesses**

| Location | Parking Stalls | Drive Aisle | Firelane / Truck Driveway |
|---|---|---|---|
| **Traffic Index** | **4.0** | **5.5** | **7.0** |
| HMA Thickness (in) | 4.0 | 4.0 | 6.0 |
| Aggregate Base Thickness (in) | 4.0 | 8.0 | 10.0 |

Prior to construction of the pavement sections provided above, the subgrade for the proposed pavement should be moisture conditioned to a depth of 12 inches and compacted to achieve 95 percent. The aggregate base section should then be placed, moisture conditioned to near optimum moisture content and compacted to achieve 95 percent relative compaction. The HMA section should be in accordance with the City of Santa Ana requirements and should be compacted to 95 percent relative compaction.

A representative of UES should be onsite to observe and test the subgrade, base and HMA sections.

### 7.7. Drainage Control

Proper surface drainage is critical to the future performance of the project. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Proper site drainage should be always maintained. All site drainage, with the exception of any required to disposed of onsite by stormwater regulations, should be collected and transferred to the street in non-erosive drainage devices.

The proposed structure should be provided with roof drainage. Discharge from downspouts, roof drains and scuppers should not be permitted on unprotected soils within five feet of the building perimeter. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. Drainage should not be allowed to flow uncontrolled over any descending slope. Planters which are located within a distance equal to the depth of a retaining wall should be sealed to prevent moisture adversely affecting the wall. Planters which are located within five feet of a foundation should be sealed to prevent moisture affecting the earth materials supporting the foundation.

## 8. DESIGN REVIEW AND CONSTRUCTION MONITORING

Geotechnical review of plans and specifications is of paramount importance in engineering practice. The poor performance of many structures has been attributed to inadequate geotechnical review of construction documents. Additionally, observation of excavations will be important to the performance of the proposed development. The following sections present our recommendations relative to the review of construction documents and the monitoring of construction activities.

### 8.1. Plans and Specifications

The design plans and specifications should be reviewed by UES prior to bidding and construction, as the geotechnical recommendations may need to be reevaluated in the light of the actual design configuration and loads. This review is necessary to evaluate whether the recommendations contained in this report and future reports have been properly incorporated into the project plans and specifications. Based on the work already performed, this office is best qualified to provide such review.

### 8.2. Construction Monitoring

Site preparation, removal of unsuitable soils, assessment of imported fill materials, fill placement, foundation installation, and other site grading operations should be observed and tested. The substrata exposed during the construction may differ from that encountered in the test excavations. Continuous observation by a representative of UES during construction allows for evaluation of the soil conditions as they are encountered and allows the opportunity to recommend appropriate revisions where necessary.

The project engineer should be notified prior to exposure of subgrades. It is critically important that the engineer be provided with an opportunity to observe all exposed subgrades prior to burial or covering.

## 9. LIMITATIONS

The recommendations and opinions expressed in this report are based on information obtained from our field exploration for the site. In the event that any of our recommendations conflict with recommendations provided by other design professionals, we should be contacted to aid in resolving the discrepancy.

Due to the limited nature of our field explorations, conditions not observed and described in this report may be present on the site. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation and laboratory testing can be performed upon request. It should be understood that conditions different from those anticipated in this report may be encountered during excavation operations, for example, the presence of unsuitable soil, and that additional effort may be required to mitigate them.

Site conditions, including groundwater elevation, can change with time as a result of natural processes or the activities of man at the subject site or at nearby sites. Changes to the applicable laws, regulations, codes, and standards of practice may occur as a result of government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which UES has no control.

UES's recommendations for this site are, to a high degree, dependent upon appropriate quality control of foundation construction. Accordingly, the recommendations are made contingent upon the opportunity for UES to observe foundation excavations for the proposed construction. If parties other than UES are engaged to provide such services, such parties must be notified that they will be required to assume complete responsibility as the geotechnical engineer of record and the engineering geologist of record for the geotechnical phase of the project by concurring with the recommendations in this report and/or by providing alternative recommendations.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. UES should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report has been prepared for the exclusive use by the client and its agents for specific application to the proposed design and construction of the project described herein. Any party other than the client who wishes to use this report for an adjacent or nearby project, shall notify UES of such intended use. Land use, site conditions, or other factors may change over time, and additional work may be required with the passage of time. Based on the intended use of this report and the nature of the project, UES may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or any other party will release UES from any liability resulting from the use of this report by any unauthorized party.

UES has endeavored to perform its evaluation using the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical professionals with experience in this area in similar soil conditions. No other warranty, either expressed or implied, is made as to the conclusions and recommendations contained in this report.

## 10. SELECTED REFERENCES

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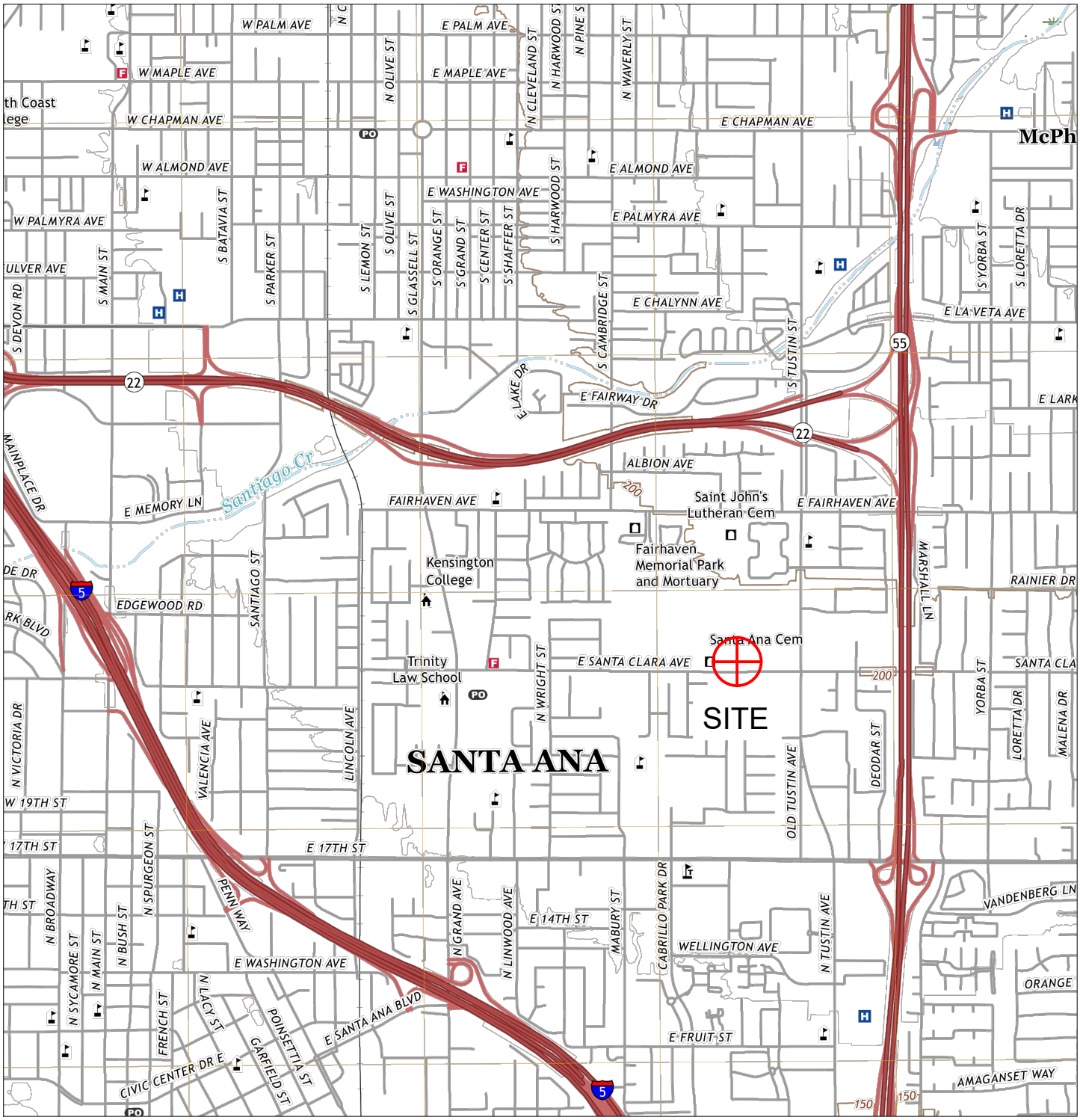
# FIGURES




# APPROXIMATE SITE LOCATION

SCALE IN FEET

0 1000' 2000'

REFERENCE: USGS "Orange 7.5-Minute Quadrangle" (2018)

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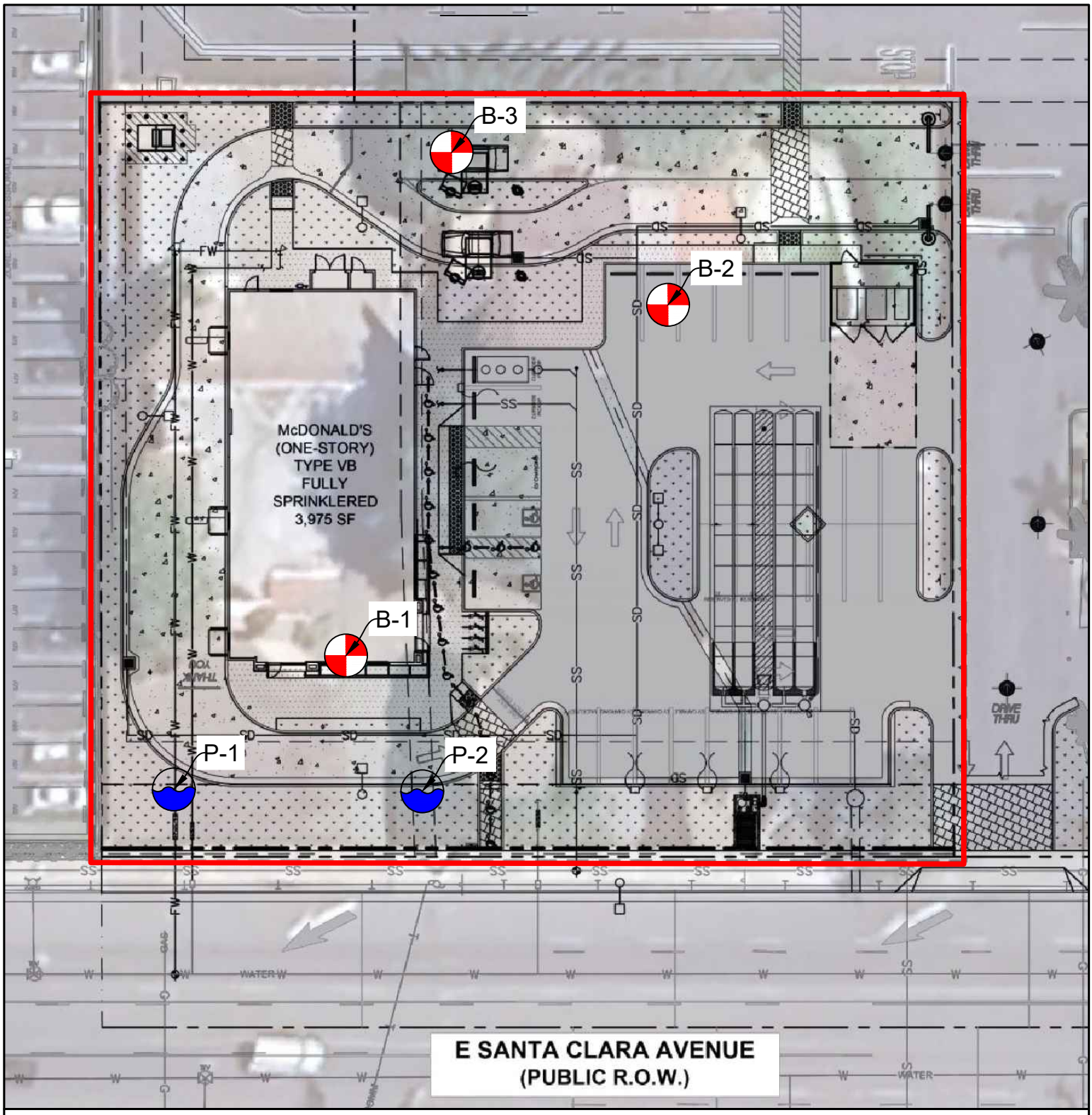
## SITE VICINITY LOCATION MAP

McDonald's
2109 E Santa Clara Ave
Santa Ana, California

| PROJECT NO. | REPORT DATE | FIGURE 1 |
|---|---|---|
| 4230.2100035.0000 | October 2021 | |




N

20 0 20 40

(IN FEET)

PROJECT BOUNDARY

BORING LOCATION

PERCOLATION TEST LOCATION

UES

**Exploration Map**

**Santa Ana McDonalds**

**2109 Santa Clara Avenue**

**Orange County, California**

**Date:**
**08-21-2023**

**Job No:**
**4230.2100035.0000**

**Figure 2**

# APPENDIX A

# Field Exploration and Boring Logs

# Appendix A
# Field Exploration and Boring Logs

## General

The subsurface exploration program for the proposed project consisted of logging five 8-inch diameter exploratory borings conducted at the site on October 8, 2021. The borings were advanced to a maximum depth of 21.5 feet below the existing grade. The drilling operation was performed using a limited access track-mounted CME-75 hollow-stem-auger drill rig.

## Drilling and Sampling

The Boring Logs are presented in the following pages. The log also shows the boring number and drilling date. The borings were logged by a geologist using the Unified Soil Classification System. The boundaries between soil types shown on the logs are approximate because the transition between different soil layers may be gradual. Drive and bulk samples of representative earth materials were obtained from the borings.

Disturbed samples were obtained using a Standard Penetration Sampler (SPT). This sampler consists of a 2-inch O.D., 1.4-inch I.D. split barrel shaft that is advanced into the soil at the bottom of the drilled hole a total of 18 inches. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs. Soil samples obtained by the SPT were retained in plastic bags.

A California modified sampler was used to obtain drive samples of the soil encountered. This sampler consists of a 3-inch outside diameter (O.D.), 2.4-inch inside diameter (I.D.) split barrel shaft that was driven a total of 12-inches into the soil at the bottom of the boring by a safety hammer weighing 140 pounds at a drop height of approximately 30 inches. The soil was retained in brass rings for laboratory testing. Additional soil from each drive remaining in the cutting shoe was usually discarded after visually classifying the soil. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs.

Upon completion of the borings, the boreholes were backfilled with soil from the cuttings.

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# BORING NUMBER B-1



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND trace gravel, light brown, dry to damp, medium dense, fine grained | GB | 100 | | | | | | | | |
| | | | MC | 100 | 11-16-16 (32) | 1.0 | 111 | 4 | 25 | 14 | 11 | |
| 5 | | some gravel | SPT | 100 | 5-5-6 (11) | | | | | | | 35 |
| | | (SC) CLAYEY SAND WITH GRAVEL, dark yellow brown, dry, medium dense, fine grained | MC | 100 | 11-12-15 (27) | 1.5 | 113 | 5 | | | | 44 |
| 10 | | | SPT | 100 | 9-6-7 (13) | | | | | | | |
| | | no recovery | MC | 0 | 50 | | | | | | | |
| 15 | | (SM) SILTY SAND WITH GRAVEL, light brown, dry, very dense. One big chunk of bedrock. | SPT | 100 | 5-20-30 (50) | | | | | | | 17 |
| | | no recovery | MC | 0 | 33-25-35 (60) | | | | | | | |
| 20 | | no recovery | SPT | 0 | 50 | | | | | | | |

Bottom of borehole at 21.5 feet.

GEOTECH BH COLUMNS - GINT STD US LAB.GDT - 10/29/21 08:37 - I:\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS LOGS.GPJ

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# BORING NUMBER B-2



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, dry to damp, stiff, fine grained | | | | | | | | | | |
| | | | GB | 100 | | | | | | | | |
| | | | MC | 100 | 7-10-12 (22) | 0.5 | 103 | 5 | | | | |
| 5 | | trace gravel, medium dense | | | | | | | | | | |
| | | | SPT | 100 | 5-4-5 (9) | | | | | | | |
| | | | MC | 100 | 7-17-19 (36) | 1.0 | 114 | 4 | | | | |
| 10 | | | | | | | | | | | | |
| | | | SPT | 100 | 5-8-8 (16) | | | | | | | |

Bottom of borehole at 11.5 feet.

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# BORING NUMBER B-3



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC-SM) SILTY, CLAYEY SAND, light brown, dry, loose, fine grained | | | | | | | | | | |
| | | trace gravel | GB | 100 | | | | | | | | |
| | | | MC | 100 | 3-4-5 (9) | 0.5 | | | | | | |
| 5 | | medium dense, some gravel | SPT | 100 | 20-15-20 (35) | | 117 | 3 | | | | |
| | | loose, some gravel | MC | 100 | 4-3-4 (7) | | | | | | | |
| 10 | | (SM) SILTY SAND WITH GRAVEL, dark yellow brown, damp, loose, fine grained | SPT | 100 | 9-11-13 (24) | 1.5 | 112 | 4 | | | | |
| | | loose, no gravel | MC | 100 | 3-4-4 (8) | | | | | | | 16 |
| 15 | | (SP-SM) POORLY GRADED SAND WITH SILT AND GRAVEL, light red with brown, damp, dense, fine to coarse grained sands | SPT | 100 | 17-18-34 (52) | | 115 | 2 | | | | |

Bottom of borehole at 16.5 feet.

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# BORING NUMBER P-1



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, fine grain | GB | 100 | | | | | | | | 49 |
| 5 | | | | | | | | | | | | |

Bottom of borehole at 5.0 feet.

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# BORING NUMBER P-2



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, fine grain | GB | 100 | | | | | | | | 36 |
| 5 | | | | | | | | | | | | |

Bottom of borehole at 5.0 feet.

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# APPENDIX B
# Laboratory Testing

# Appendix B
# Laboratory Testing

## ASTM D 2488 - Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix A.

## ASTM D 2937- In-Place Moisture and Density Tests

The moisture content and dry density of relatively undisturbed samples obtained from the exploratory borings were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

## ASTM D 422 - Gradation Analysis

Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. These test results were utilized in evaluating the soil classifications in accordance with the USCS.

## ASTM D 1140 - Wash Sieve

The amount of fines passing the No. 200 sieve was evaluated by the wash sieve. The test procedure was in general accordance with ASTM D 1140. The results are presented in B- 1: ASTM D 1140 - Wash Sieve.

**B- 1: ASTM D 1140 - Wash Sieve**

| Boring No. | Depth (feet) | Percent Passing #200 |
|---|---|---|
| B-1 | 5.0 | 34.5 |
| B-1 | 7.5 | 43.7 |
| B-1 | 15.0 | 16.5 |
| B-3 | 10.0 | 15.5 |
| P-1 | 5.0 | 48.6 |
| P-2 | 5.0 | 36.1 |

## ASTM D 4318 - Atterberg Limit

Tests were performed on selected representative fine-grained soil samples to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the Unified Soil Classification System (USCS). The test results and classifications are shown in B- 2: ASTM D 4318 - Atterberg Limit

**B- 2: ASTM D 4318 - Atterberg Limit**

| Boring No. | Depth (feet) | Atterberg Limits | | |
|---|---|---|---|---|
| | | Liquid Limit | Plastic Limit | Plasticity Index |
| B-1 | 2.5 | 25 | 14 | 11 |

**ASTM D 3080 - Direct Shear Tests**

A direct shear test was performed on relatively undisturbed sample in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of the selected material. The results are shown on B- 3: ASTM D 3080 Direct Shear Test Results.

**B- 3: ASTM D 3080 Direct Shear Test Results**

| Boring No. | Depth (feet) | Remolded | Peak | | Ultimate | |
|---|---|---|---|---|---|---|
| | | | C (psf) | Phi (deg) | C (psf) | Phi (deg) |
| B-1 | 2.5 | YES | 140 | 30 | 150 | 29 |

**ASTM D 4829 – Expansion Index of Soils**

An expansion index (EI) test was performed on relatively undisturbed sample in general accordance with ASTM D 4829 to evaluate the expansion potential of the selected material. The results are shown on B- 4: ASTM D 4829 Expansion Index of Soils .

**B- 4: ASTM D 4829 Expansion Index of Soils**

| Boring No. | Depth (feet) | EI value | Potential Expansion |
|---|---|---|---|
| B-1 | 0-5 | 13 | Very Low |

**ASTM D2435 - Consolidation Test**

A Consolidation tests was performed on a selected driven soil sample in general accordance with the latest version of ASTM D2435. The sample was inundated during testing to represent adverse field conditions. The percent consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample.

**Soil Corrosivity**

Soil pH and resistivity tests were performed by **Project X** on a representative soil sample in general accordance with the latest version of ASTM D4972 and ASTM G187, respectively.

The chloride content of the selected sample was evaluated in general accordance with the latest version of ASTM D4327.

The sulfate content of the selected samples was evaluated in general accordance with the latest version of ASTM D4327. The test results are presented on B- 5: Corrosivity Test Results.

**B- 5: Corrosivity Test Results**

| | | ASTM D 4327 | ASTM D 4327 | ASTM G 187 | ASTM D4972 |
|---|---|---|---|---|---|
| Boring No. | Depth (ft) | Water Soluble Sulfate (ppm) | Water Soluble Chloride (ppm) | Minimum Resistivity (ohm-cm) | pH |
| B-3 | <5 | 28.6 | 5.9 | 34,840 | 8.9 |

**ASTM D 2844 – Resistance R-Value and Expansion Pressure of Compacted Soils**

The resistance value, or R-value, for site soils was evaluated in general accordance with California Test (CT) 301. The sample was prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results.

**B- 6: R-Value Test Results**

| Boring No. | Depth (feet) | R-Value |
|---|---|---|
| B-1 | 0-5 | 17 |

LAB SUMMARY - GINT STD US LAB.GDT - 10/28/21 10:02 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS L

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Universal Engineering Sciences
16 Technology Dr., Ste 139
Irvine, CA 92618
Telephone: 949-989-6940

# SUMMARY OF LABORATORY RESULTS



**CLIENT** McDonald's USA **PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000 **PROJECT LOCATION** Santa Ana, CA

| Borehole | Depth | Liquid Limit | Plastic Limit | Plasticity Index | Maximum Size (mm) | %<#200 Sieve | Class-ification | Water Content (%) | Dry Density (pcf) | Satur-ation (%) | Void Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | 2.5 | 25 | 14 | 11 | | | SC | 4.4 | 111.1 | | |
| B-1 | 5.0 | | | | 12.5 | 34.5 | SC | | | | |
| B-1 | 7.5 | | | | 12.5 | 43.7 | SC | 5.0 | 113.2 | | |
| B-1 | 15.0 | | | | 25 | 16.5 | SM | | | | |
| B-2 | 2.5 | | | | | | | 5.0 | 102.7 | | |
| B-2 | 7.5 | | | | | | | 4.0 | 113.5 | | |
| B-3 | 5.0 | | | | | | | 2.7 | 116.7 | | |
| B-3 | 10.0 | | | | | | | 3.8 | 112.2 | | |
| B-3 | 12.5 | | | | 9.5 | 15.5 | SM | | | | |
| B-3 | 15.0 | | | | | | | 1.9 | 115.3 | | |
| P-1 bulk | 0-5 | | | | 25 | 48.6 | SC | | | | |
| P-2 bulk | 0-5 | | | | 25 | 36.1 | SC | | | | |

# GRAIN SIZE DISTRIBUTION

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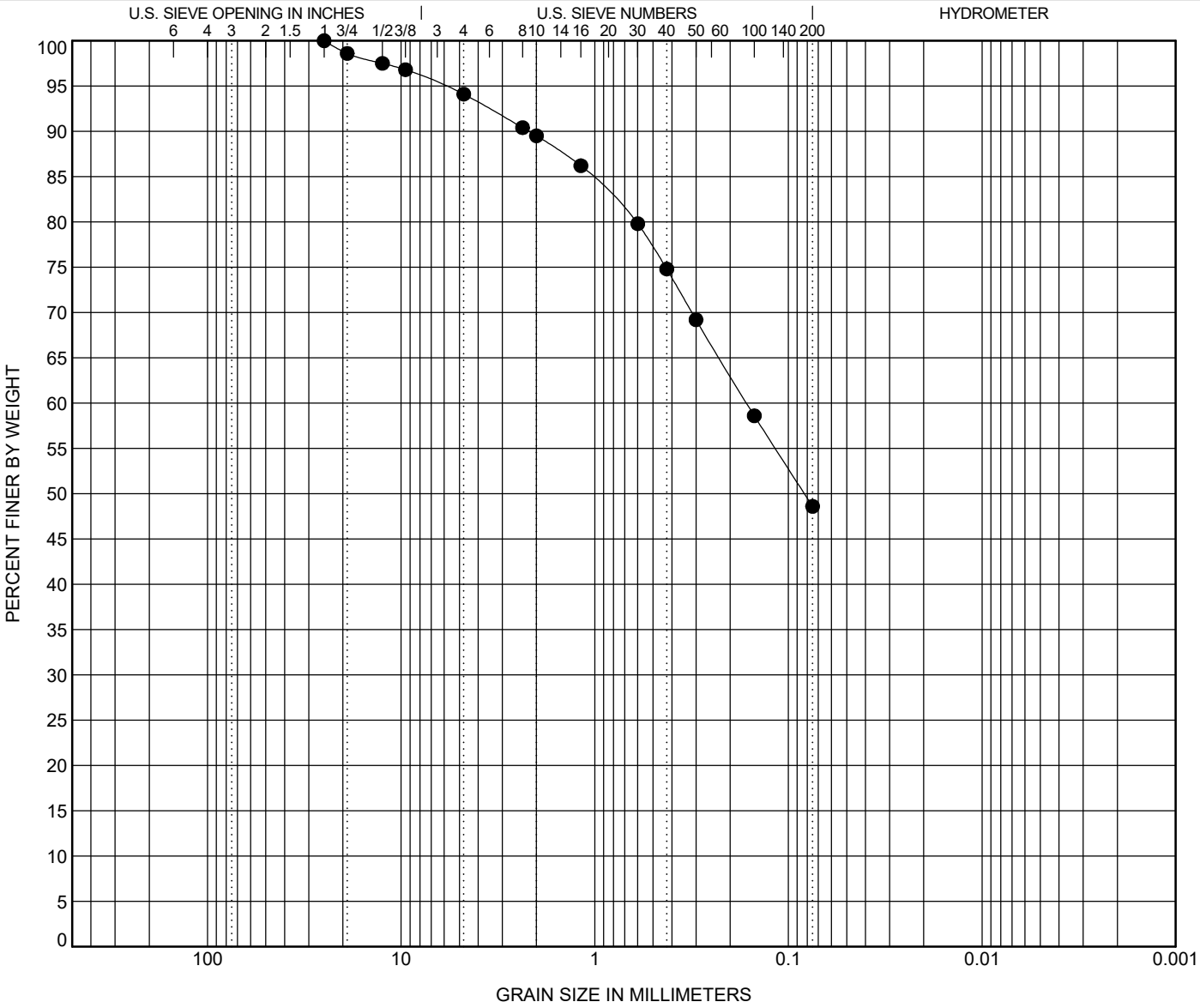
Telephone: 949-989-6940

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | BOREHOLE | DEPTH | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | **P-1** | **5.0** | **(SC) CLAYEY SAND *trace gravel** | | | | | |

| | BOREHOLE | DEPTH | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | **P-1** | **5.0** | **25** | **0.164** | | | **5.9** | **45.5** | **48.6** | |

GRAIN SIZE - GINT STD US LAB.GDT - 11/2/21 11:15 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS LOGS

# GRAIN SIZE DISTRIBUTION

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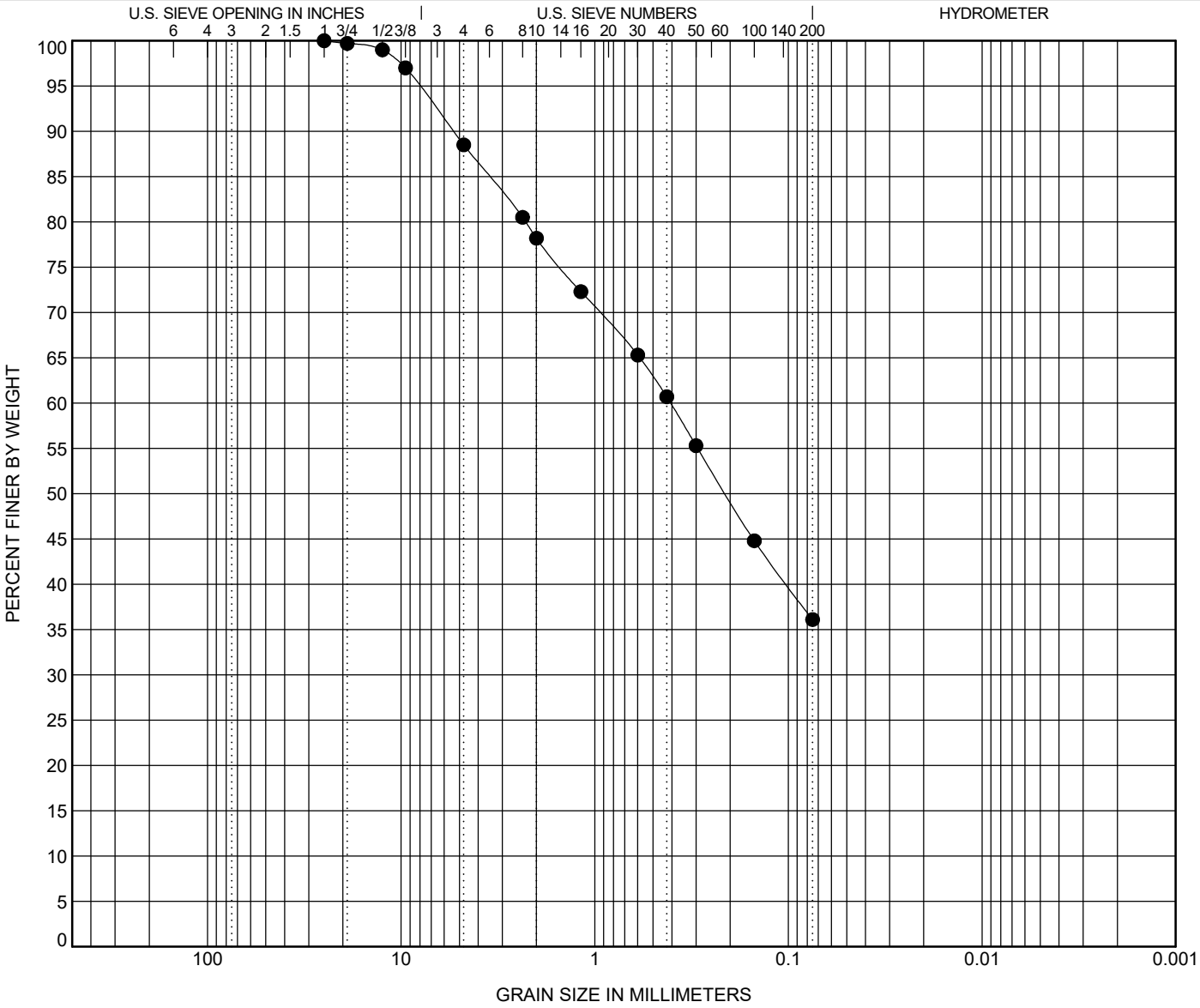
Telephone: 949-989-6940

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | BOREHOLE | DEPTH | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | **P-2** | **5.0** | **(SC) CLAYEY SAND *trace gravel** | | | | | |

| | BOREHOLE | DEPTH | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | **P-2** | **5.0** | **25** | **0.406** | | | **11.5** | **52.4** | **36.1** | |

GRAIN SIZE - GINT STD US LAB.GDT - 11/2/21 13:04 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS LOGS

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16 Technology Dr., Ste 139
Irvine, CA 92618
Telephone: 949-989-6940

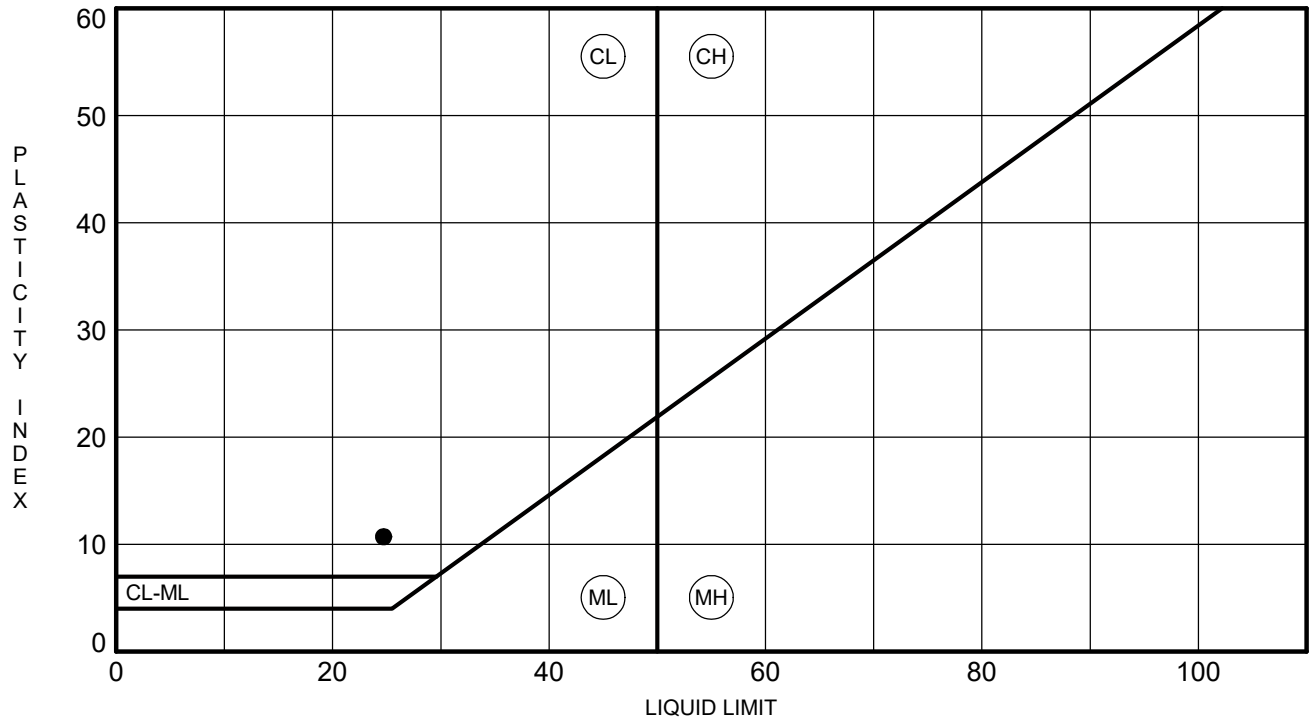
# ATTERBERG LIMITS' RESULTS

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

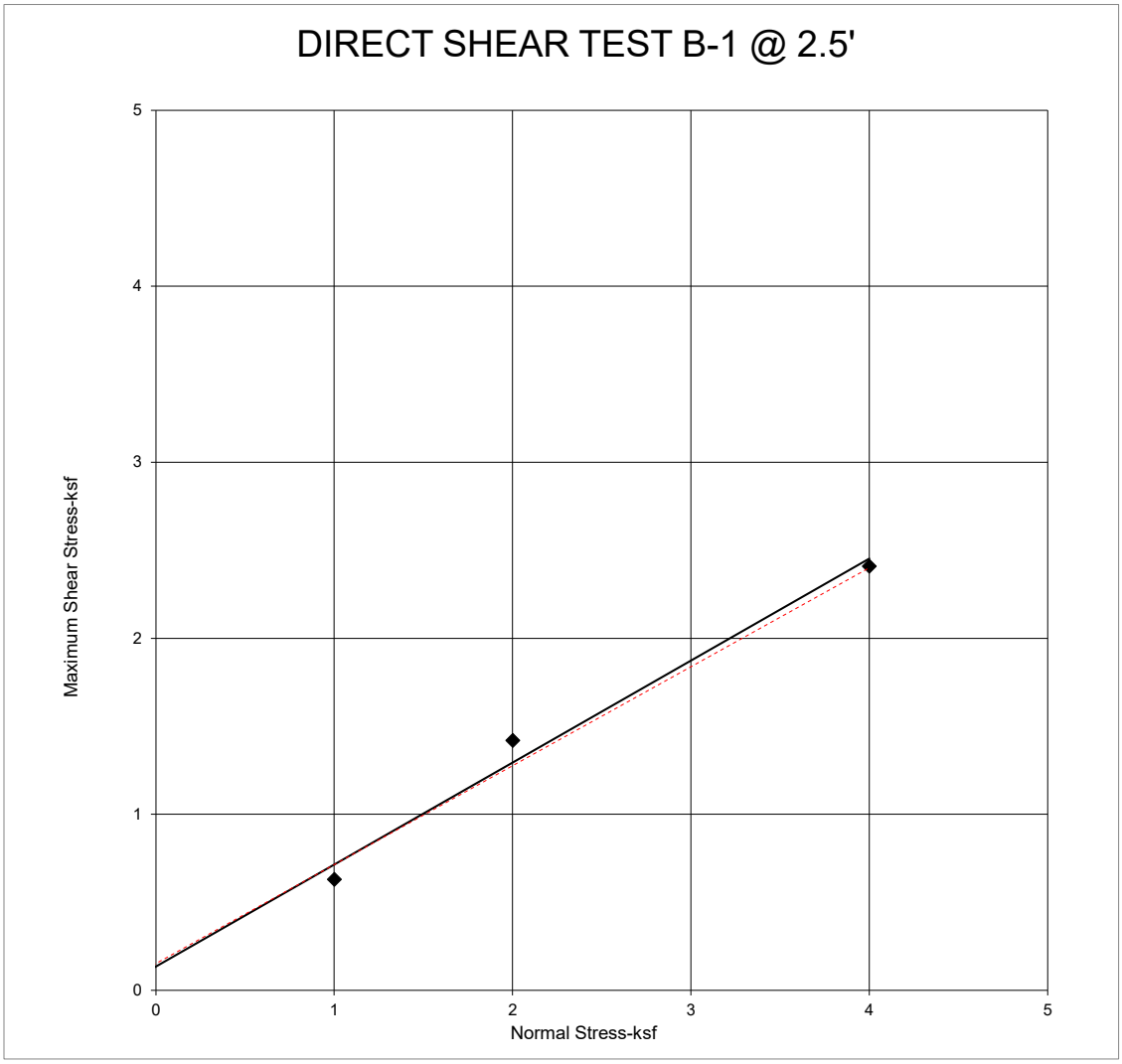
**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | LL | PL | PI | Fines | Classification |
|---|---|---|---|---|---|---|---|
| ● | **B-1** | **2.5** | **25** | **14** | **11** | | **(SC) CLAYEY SAND trace gravel** |

ATTERBERG LIMITS - GINT STD US LAB.GDT - 10/28/21 10:50 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONA




| Sample No. | Sample Depth (ft) | Normal Stress (ksf) | Maximum Shear Stress (ksf) | Wet Density (pcf) | Moisture Content (%) | Dry Density (pcf) | Final Moisture Content (%) | |
|---|---|---|---|---|---|---|---|---|
| B-1 | **2.5** | 1.0 | 0.63 | 116.0 | 4.4 | 111.1 | 25.2 | |
| B-1 | **2.5** | 2.0 | 1.42 | 116.0 | 4.4 | 111.1 | 25.0 | |
| B-1 | **2.5** | 4.0 | 2.41 | 116.0 | 4.4 | 111.1 | 24.7 | |

**Sample Type:** Remolded **Test Condition:** Saturated Sample Description: Light Brown Clayey Sand (SC)

**Peak Test Results**

| | |
|---|---|
| **Cohesion (psf):** | 140 |
| **Friction Angle (degrees):** | 30 |
| **Shear Rate (in/min)** | 0.0025 |

**Residual Test Results**

| | |
|---|---|
| **Cohesion (psf):** | 150 |
| **Friction Angle (degrees):** | 29 |
| **Shear Rate (in/min)** | 0.0025 |

**McDonald's - Santa Ana**

**Project No.**

**4230.2100035.0000**

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Telephone: 949-989-6940

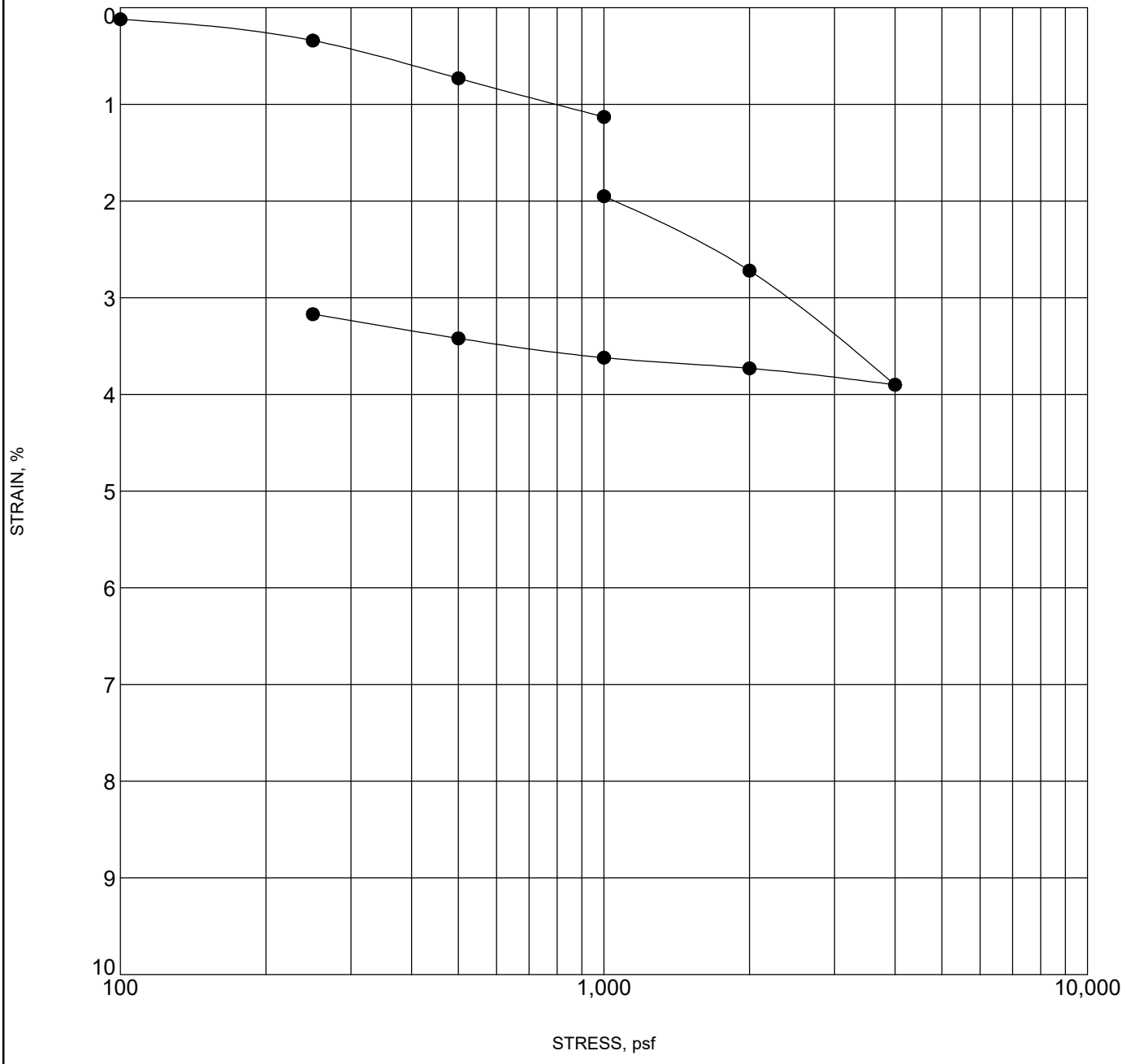
# CONSOLIDATION TEST

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | Classification | $\gamma_d$ | MC% |
|---|---|---|---|---|---|
| ● | **B-3** | **5.0** | **(SC-SM) SILTY, CLAYEY SAND with gravel** | **113.3** | **2.7** |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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Telephone: 949-989-6940

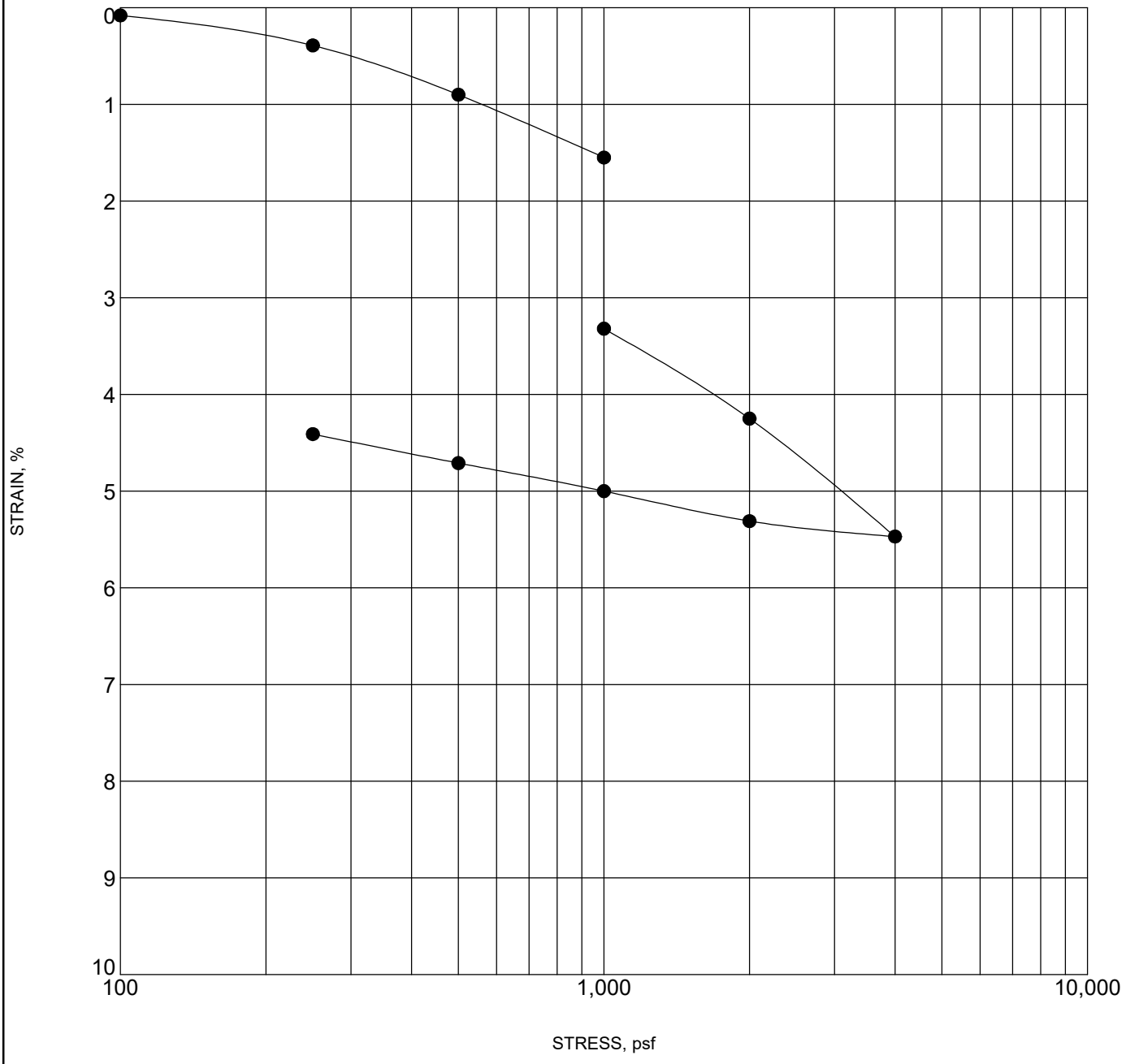
# CONSOLIDATION TEST

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | Classification | $\gamma_d$ | MC% |
|---|---|---|---|---|---|
| ● | B-3 | 15.0 | (SP-SM) POORLY GRADED SAND WITH SILT and gravel | 113.5 | 1.9 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## Soil Analysis Lab Results

Client: Universal Engineering
Job Name: Santa Ana - McDonald's
Client Job Number: 4230.2100035.0000
Project X Job Number: S211018C
October 19, 2021

| | Method | ASTM D4327 | | ASTM D4327 | | ASTM G187 | | ASTM D4972 |
|---|---|---|---|---|---|---|---|---|
| **Bore# / Description** | **Depth** | **Sulfates** $SO_4^{2-}$ | | **Chlorides** $Cl^-$ | | **Resistivity** As Rec'd \| Minimum | | **pH** |
| | (ft) | (mg/kg) | (wt%) | (mg/kg) | (wt%) | (Ohm-cm) | (Ohm-cm) | |
| B-3 Bulk | 0-5 | 28.6 | 0.0029 | 5.9 | 0.0006 | 34,840 | 6,030 | 8.9 |

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

# APPENDIX C

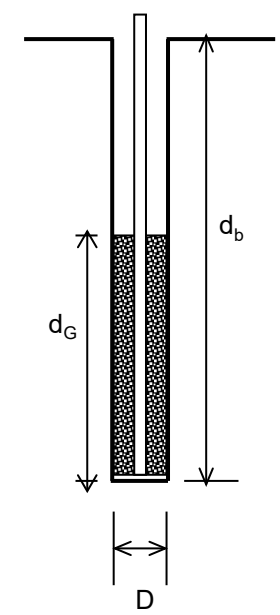
# Infiltration Test Result

## Appendix C

Percolation testing was performed on October 9, 2021 in conformance with Porchet Method (Inverse Borehole Method). Our field data and associated calculations are attached to this Appendix D for reference.

## PERCOLATION TEST DATA

**Project No.:** 4230.2100035.0000
**Project Name:** McDonalds Santa Ana Subsurface Investigations
**Test Date:** October 9, 2021
**Test Boring No.:** **P-1**
**Diameter of Boring (D):** 0.67 feet
**Depth of Boring ($d_b$):** 5.0 feet




**Sandy Soil Criteria Test**

| Time of Testing | | | Water Level Measurements | | | |
|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial depth to water $d_1$ (inch) | Greater than or Equal to 6"? (Yes/No) |
| 7:19 AM | 7:29 AM | 10.00 | 1.79 | 3.02 | 14.76 | Yes |
| 7:47 AM | 7:57 AM | 10.00 | 1.02 | 2.72 | 20.40 | Yes |

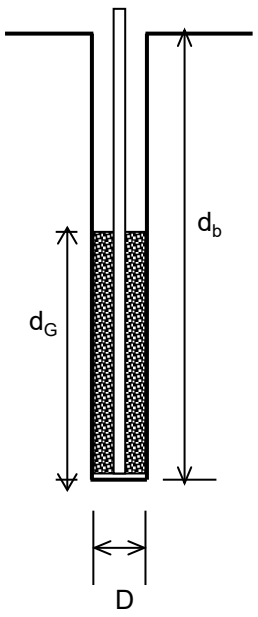
| Time of Testing | | | Water Level Measurements | | Water Level Calculations | | | Infiltration Rate Calculations | |
|---|---|---|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial height of water column $d_i$ (feet) | Final height of water column $d_f$ (feet) | Drop of water column $\Delta d = d_i - d_f$ (inch) | Tested Infiltration Rate *K (observed)* (inch/hr) | Infiltration Rate w/ Factor of Safety of 2 *K (design)* (inch/hr) |
| **Percolation Test** | | | | | | | | | |
| 8:14 AM | 8:44 AM | 30.00 | 1.46 | 1.93 | 3.54 | 3.07 | 5.64 | 0.54 | 0.27 |
| 8:45 AM | 9:15 AM | 30.00 | 1.45 | 1.91 | 3.55 | 3.09 | 5.52 | 0.53 | 0.26 |
| 9:16 AM | 9:46 AM | 30.00 | 1.52 | 2.02 | 3.48 | 2.98 | 6.00 | 0.59 | 0.29 |
| 9:47 AM | 10:17 AM | 30.00 | 1.56 | 1.95 | 3.44 | 3.05 | 4.68 | 0.46 | 0.23 |
| 10:18 AM | 10:48 AM | 30.00 | 1.55 | 1.92 | 3.45 | 3.08 | 4.44 | 0.43 | 0.22 |
| 10:49 AM | 11:19 AM | 30.00 | 1.52 | 1.92 | 3.48 | 3.08 | 4.80 | 0.46 | 0.23 |
| 11:20 AM | 11:50 AM | 30.00 | 1.50 | 1.90 | 3.50 | 3.10 | 4.80 | 0.46 | 0.23 |
| 11:51 AM | 12:21 PM | 30.00 | 1.50 | 1.89 | 3.50 | 3.11 | 4.68 | 0.45 | 0.22 |
| 12:22 PM | 12:52 PM | 30.00 | 1.50 | 1.89 | 3.50 | 3.11 | 4.68 | 0.45 | 0.22 |
| 12:53 PM | 1:23 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |
| 1:23 PM | 1:53 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |
| 1:54 PM | 2:24 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |

***Infiltration Rate: 0.22 (inch/hr)**

Reference: County of Orange Technical Guidance Document (TGD), dated December 20, 2013
*Based on the last dropped obtained in the final 30 minutes

## PERCOLATION TEST DATA

**Project No.:** 4230.2100035.0000
**Project Name:** McDonalds Santa Ana Subsurface Investigations
**Test Date:** October 9, 2021
**Test Boring No.:** **P-2**
**Diameter of Boring (D):** 0.67 feet
**Depth of Boring ($d_b$):** 5.0 feet




**Sandy Soil Criteria Test**

| Time of Testing | | | Water Level Measurements | | | |
|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial depth to water $d_1$ (inches) | Greater than or Equal to 6"? (Yes/No) |
| 7:22 AM | 7:32 AM | 10.00 | 1.07 | 1.32 | 3.00 | Yes |
| | | 0.00 | | | 0.00 | Yes |

| Time of Testing | | | Water Level Measurements | | Water Level Calculations | | | Infiltration Rate Calculations | |
|---|---|---|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial height of water column $d_i$ (feet) | Final height of water column $d_f$ (feet) | Drop of water column $\Delta d = d_i - d_f$ (inches) | Tested Infiltration Rate *K (observed)* (inch/hr) | Infiltration Rate w/ Factor of Safety of 2 *K (design)* (inch/hr) |
| **Percolation Test** | | | | | | | | | |
| 7:22 AM | 7:52 AM | 30.00 | 1.07 | 1.42 | 3.93 | 3.58 | 4.20 | 0.36 | 0.12 |
| 7:53 AM | 8:32 AM | 39.00 | 1.06 | 1.42 | 3.94 | 3.58 | 4.32 | 0.28 | 0.14 |
| 8:28 AM | 8:58 AM | 30.00 | 1.04 | 1.45 | 3.96 | 3.55 | 4.92 | 0.42 | 0.21 |
| 8:59 AM | 9:29 AM | 30.00 | 1.09 | 1.43 | 3.91 | 3.57 | 4.08 | 0.35 | 0.17 |
| 9:30 AM | 10:00 AM | 30.00 | 1.12 | 1.42 | 3.88 | 3.58 | 3.60 | 0.31 | 0.15 |
| 10:02 AM | 10:32 AM | 30.00 | 1.10 | 1.47 | 3.90 | 3.53 | 4.44 | 0.38 | 0.19 |
| 10:33 AM | 11:33 AM | 60.00 | 1.09 | 1.47 | 3.91 | 3.53 | 4.56 | 0.20 | 0.10 |
| 11:04 AM | 11:34 AM | 30.00 | 1.09 | 1.47 | 3.91 | 3.53 | 4.56 | 0.39 | 0.20 |
| 11:36 AM | 12:00 PM | 24.00 | 1.07 | 1.42 | 3.93 | 3.58 | 4.20 | 0.45 | 0.22 |
| 12:08 PM | 12:38 PM | 30.00 | 1.09 | 1.46 | 3.91 | 3.54 | 4.44 | 0.38 | 0.19 |
| 12:39 PM | 1:09 PM | 30.00 | 1.11 | 1.47 | 3.89 | 3.53 | 4.32 | 0.37 | 0.19 |
| 1:10 PM | 1:40 PM | 30.00 | 1.10 | 1.46 | 3.90 | 3.54 | 4.32 | 0.37 | 0.19 |

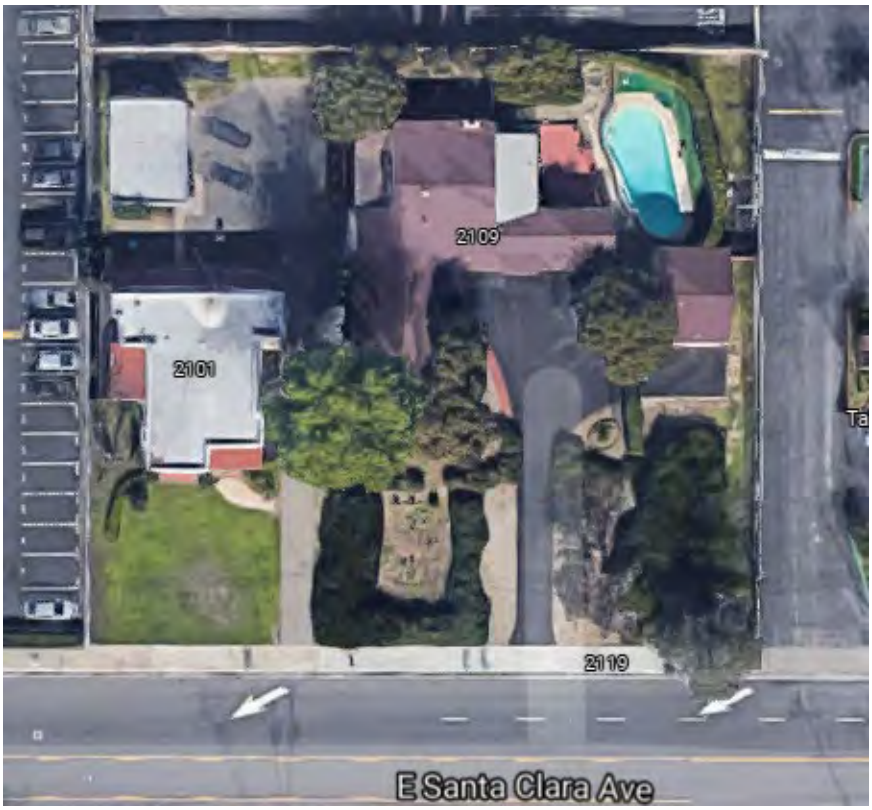
***Infiltration Rate: 0.18 (inch/hr)**

Reference: County of Orange Technical Guidance Document (TGD), dated December 20, 2013
*Based on the last dropped obtained in the final 30 minutes

# APPENDIX F

# PHASE I ENVIRONMENTAL SITE ASSESSMENT

# PHASE I ENVIRONMENTAL SITE ASSESSMENT




**The Subject Property:**

**Residential Land**

**± 0.82 Acres APN 396-261-38**
**Santa Ana, California**

**Prepared for:**
**McDonald's USA**

**Prepared by:**
**Universal Engineering Sciences**
**16 Technology Drive, Suite 139**
**Irvine, California 92618**
**(949) 537-3222**

**UES Project No. 4240.2100006.0000**
***November 4, 2021***

# PHASE I ENVIRONMENTAL SITE ASSESSMENT

Residential Land
Santa Ana, CA
APN 396-261-38

## EXECUTIVE SUMMARY

UES Geotechnical and Inspection Services D.B.A. Universal Engineering Sciences (UES) has performed a Phase I Environmental Site Assessment (ESA) of the above referenced property in general accordance with the ASTM Standard Practice E 1527-13, "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*," subject to limitations and deviations from the standard practice that are identified in the report. Methodology, observations, and conclusions specific to the property are detailed in the body of this report.

The objective of a Phase I ESA is to identify the presence of *Recognized Environmental Conditions (REC's),* defined by the American Society for Testing and Materials (ASTM) as: *The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions which pose a material threat of future release to the environment.*

**FINDINGS**

A summary of findings is below. Please note that details are not included in this section and the report must be read in its entirety for a comprehensive understanding of the information below.

**Site Description and Use**

The Subject Property is located at 2101 & 2109 E Santa Clara Avenue in Santa Ana, Orange County, California. The Orange County Assessor Parcel Number is 396-261-38. The Subject Property is a 0.82 acre parcel of vacant surrounded by commercial businesses and residences.

The Property is owned by Martin Pupil of Stream Realty. Topography in the area of the Subject Property is gently sloping south.

**Historical Document Review**

Based on historic document review, the site is visible as agricultural land in 1938, which is the earliest aerial imagery provided by EDR. The Subject Property was developed with the first structures after 1966.

Given that the Subject Property was previously used for agricultural purposes according to the topographic map symbology from at least 1938-1963, it is likely that herbicides and pesticides were used. It is known that DDT was routinely sprayed on agricultural lands throughout California. However, based on the time lapsed between the site's use for agricultural purposes and subsequent development, UES does not consider The Subject Property's previous agricultural

use to be a REC. Based on the historical documentation reviewed, no Recognized Environmental Conditions (REC) were identified.

**Environmental Records Review**
Selected federal and state environmental regulatory databases as well as responses from state and local regulatory agencies were reviewed. The Subject Property and adjoining properties were not identified in the regulatory databases.

Based on distance, environmental setting and/or facility characteristics, the remaining identified facilities and inquiry results from the local agencies do not constitute RECs in connection with The Subject Property at this time.

**Site Reconnaissance**
The Subject Property is a residential parcel of land with two one-story houses and two one-story detached garages. Based on site reconnaissance, RECs were not identified associated with on-site activities.

**Significant Data Gaps**
No significant data gaps were identified for The Subject Property with the exception that historical records were not available prior to 1938. The lack of available of records prior to 1938 is not considered a significant data gap due to the undeveloped nature of The Subject Property and vicinity prior to 1938.

**Opinions and Conclusions**
UES has performed a Phase I ESA consistent with the procedures included in ASTM Practice E1527-13 for the property at 2101 & 2109 E Santa Clara Avenue, APN 396-261-38, Santa Ana, Orange County, California. Recognized Environmental Conditions (RECs), Controlled RECs (CRECs), or Historical RECs (HRECs) were not identified in connection with The Subject Property.

**Recommendations**
Based on the observations detailed in this report, **UES found no information** which indicated the presence of *Recognized Environmental Conditions* that might potentially pose a threat to The Subject Property.

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# 1.0 INTRODUCTION

UES Geotechnical and Inspection Services D.B.A. Universal Engineering Sciences (UES) has conducted this Phase I ESA, prepared at the request of McDonald's USA, hereafter referred to as *The User,* representing the intended purchaser/developer of *The Subject Property* and acting as the key site manager of *The Subject Property* for the purposes of this assessment in conformance with UES's contract and with ASTM Standard Practice E1527-13 and EPA Standards and Practices for All Appropriate Inquires (40 CFR Part 312).

**Purpose**

The purpose of a Phase I ESA is to identify *Recognized Environmental Conditions*, which are defined by the American Society for Testing and Materials as: *The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property 1) due to any release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions which pose a material threat of future release to the environment* at The Subject Property due to past or present uses and/or *recognized environmental conditions* that may exist at other properties in the vicinity which could adversely affect conditions on The Subject Property.

The term includes hazardous substances even under conditions in compliance with applicable State or Federal laws. The term is not intended to include *de-minimis* conditions that generally do not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate government agencies. Conditions determined to be *de-minimis* are not *REC's*.

A Phase I ESA may also determine that a site has a *Historical Recognized Environmental Condition (HREC),* defined by ASTM as: *a past release of any hazardous substance or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls*. The environmental professional may determine that an *HREC* on a property still qualifies as a *REC* based on a number of factors. If the event that the environmental professional determines that an *HREC* continues to meet the definition of a *REC* in regards to The Subject Property, detailed information explaining this decision will be outlined in the report.

Also, a Phase I ESA may determine the existence of a *Controlled Recognized Environmental Condition (CREC)* on a site. A *CREC* is defined by ASTM as: *a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority*, with hazardous substances allowed to remain in place subject to regulatory controls.

This report is intended to permit *The User* to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner, or bona fide prospective purchaser* limitations on Comprehensive Environmental Response, Compensation Liability Act (CERCLA) liability and satisfies the requirement for conducting all appropriate inquiry (AAI) into the prior ownership and

use of The Subject Property. This is consistent with good commercial or customary practice and in order to qualify for protections against liability under the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) defined *innocent landowner, bona fide prospective purchaser*, and/or the *contiguous property owner* defenses.

In the event that a Phase I ESA finds that a subject property has one or more *REC's;* and if *The User* wants to take the next step towards conducting AAI in order to qualify for CERCLIS protections, conducting of a Phase II ESA is generally the next step in the process.

A Phase II Environmental Site Assessment is a more comprehensive assessment and would include sampling and chemical analysis of groundwater and/or surface and subsurface soil samples to provide more definitive information regarding site-specific conditions. It is generally conducted to verify the findings of a Phase I report in which *REC's* were encountered.

**Limitations and Exceptions of Assessment**

This report includes the real property as described by the Orange County Assessor's Parcel Number 396-261-38 and is limited to the approximate boundaries described in Section 2.0 of this report. It is important to note that the limited scope of data collected and reviewed does not guarantee the absence of hazardous materials or waste or petroleum products. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for *REC's* in connection with a property. This report makes some reasonable assumptions such as the assumption that the physical gradient for the property indicated on the most recent available and associated USGS topographic maps remains true, and that groundwater gradient below The Subject Property follows the same general trend of the groundwater in the immediate vicinity.

It is also important to note that the level of inquiry for a Phase I ESA is variable, and that not every property warrants the same level of assessment. The information obtained by the environmental professional during the course of this assessment was used to determine the necessity of further investigation into the property to determine whether or not a *REC* exists. The level of inquiry utilized during the course of this assessment is based upon the environmental professional's opinions regarding the likelihood of *REC'*s on a property, and therefore, some assessments are considerably more exhaustively researched if it is the professional's opinion that further research would be likely to produce more conclusive evidence regarding the presence or likely presence of *REC's*. A Phase I ESA does not imply a cost prohibitive and time exhaustive search into every public record that may exist for a subject property, rather, it includes a search of all readily available public records which are *likely* to contain information regarding the environmental conditions on the property.

In the event that a *Controlled Recognized Environmental Condition* is identified, this does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be implemented.

The opinions presented herein are based on limited data and no warranty is given or implied for this report. UES cannot be responsible for conditions or consequences arising from relevant facts

that were concealed, withheld, unavailable, or not fully disclosed at the time the assessment was undertaken.

This assessment is presumed to be valid as long as the date of acquisition of The Subject Property does not exceed 180 days from the date of submittal of this report. If the property meets the time frame requirements and The User requires an update to the original report, UES can provide an update that will cover the time frame of between 180 days and 365 days prior to the date of acquisition of The Subject Property. The key components for the update will include, but are not limited to, a new interview with the property owners, operators and/or occupants of the property, a new search for environmental liens against the property, an update of the required database searches, and a new visual inspection of The Subject Property and adjoining properties. Following the completion of these components, a declaration of update to the original Phase I ESA will be issued and signed by the C.E.M. responsible for the update, and will include a copy of the most recent relevant certification of the C.E.M.

UES performed this Phase I Environmental Site Assessment in general accordance with the scope and limitations of ASTM E 1527-13. Any potentially significant data gaps are listed as follows:

**Significant Data Gaps:**
The following data gaps were encountered for The Subject Property during the course of this assessment.

- Historical documentation of The Subject Property prior to 1938 was not available within the time and cost constraints of this assessment. **The Subject Property was undeveloped in an 1938 aerial photograph, this is not considered to be a significant data gap.**

**Additional Services**

UES did conduct evaluations of Non-ASTM Scope items (asbestos-containing material and lead-based paint). The results are in a separate report.

**User Reliance**

This Phase I Environmental Site Assessment was prepared for *The User*, representing the intended purchaser and developer of The Subject Property and is not intended for use by any other entity. The contents should not be relied upon by any party other than the aforementioned without the express written consent of UES. This report is based upon the environmental professional's opinion that *The User*, and only *The User*, has met *The User* responsibility requirements set forth in the referenced standard.

# 2.0 SITE DESCRIPTION

### Location, Assessor's Parcel Number and Assessor's Parcel Description

The Subject Property is located in Santa Ana, Orange County, California as shown in Figure 1. The Orange County Assessor's Office parcel number is 396-261-38. The Subject Property consists of a square/trapezoid shape, ± 0.82 acre parcel, located at 2101 & 2109 E Santa Clara Avenue.

### Site and Vicinity Characteristics

The vicinity of The Subject Property is characterized primarily by residential properties. Development of the immediate vicinity of The Subject Property did not begin until 1938 with the residential developments to the south and east.

### Current Uses of the Property and Adjoining Properties

| Direction | Street Address | Construction Year | Current Use |
|---|---|---|---|
| Subject Property | APN: 396-261-38<br>2109 E Santa Clara Ave | 1972 | Residential |
| North | 2360 N Tustin Ave | 1972 | Commercial |
| East | 2300 N Tustin Ave | 1985 | Commercial |
| South | 2112 E Santa Clara Ave | 1964 | Residential and schools |
| West | 1919 E Santa Clara Ave | Pre-1938 | Cemetery |

### Description of Improvements

At the time of our site visit, The Subject Property was characterized as a residential parcel of land with two one-story houses and two one-story detached garages.

Historic aerial photographs from 1938 to 2016 and topographic maps from 1942 to 2012 indicate that The Subject Property has been developed with a permanent structure since at least 1966.

A parcel ownership history search was conducted through the Orange County Assessor's office on The Subject Property for current and past owners. Stream Realty currently owns the site. A list of past owners is listed in the Appendix. The Subject Property parcel is currently listed by the Orange County Assessor's office as Residential.

**Physical Setting – Topography, Geology and Hydrology**

The Subject Property geology is representative of the thick succession of sedimentary rocks underlying the coastal plain in Los Angeles and Orange Counties deposited in a broad synclinal depression, frequently referred to as the Los Angeles Basin. In this basin the sedimentary rocks of Pliocene and Quaternary age are 5,000 to 13,000 feet thick; the underlying sedimentary rocks of earlier Tertiary and greater age may be even thicker. The Subject Property is situated in the southeastern portion of the Los Angeles Basin in Santa Ana, Orange County, California. In the vicinity of The Subject Property, Quaternary young alluvial fan deposits make up the near surface deposits.

The coastal plain does not span a simple regional syncline, however, but includes several local structural features whose axes are roughly parallel and trend northwest. Of these local features the most extensive is the Newport-Inglewood structural zone, a composite belt of anticlinal folds and subsidiary faults that extends from Newport Mesa to Beverly Hills. This feature is topographically gentle but structurally prominent; in effect it divides the coastal-plain area into two synclinal troughs. To the northeast, or inland, a broad syncline underlies Downey Plain and extends from Hollywood on the northwest to and beyond Santa Ana on the southeast. This mam syncline is flanked in turn on the northeast by the Coyote Hills uplift, a regional anticlinal fold that probably is bordered on its south flank by a northward-dipping reverse fault of considerable displacement. Beyond the Coyote Hills the rocks are depressed in the relatively small synclinal La Habra Basin and then are abruptly displaced at the Whittier fault, which strikes southeast across the coastal flank of the Puente Hills.

Based on well data collected from the California Well Log Database query tool through the State of California Division of Water Resources, the logs for the nearest water well suggest that the depth to groundwater on The Subject Property is about 215 feet below the existing ground surface. This is only an estimate, and is based on data from a location nearby but not on The Subject Property. Actual groundwater depth on The Subject Property may vary due to unknown geologic conditions such as a perched aquifer and/or naturally occurring seasonal fluctuations in groundwater levels.

Groundwater in the vicinity of The Subject Property is likewise assumed to approximate the native surface topography, which drains surface waters approximately to the southwest. Drainage of surface water in the vicinity is through a mix of urban floodwater drainage controls. Surface water from the site drains through these channels, leading eventually to the Los Angeles Basin.

The elevation of Santa Ana is generally ± 192 feet above mean sea level. The native topography of The Subject Property has an elevation of approximately 200 feet above mean sea level and slopes gently to the southwest.

# 3.0 USER PROVIDED INFORMATION

**User Questionnaire**

The *User* was asked to provide the following questionnaire information.

| User Provided Information | Client did not respond | Client's Response | |
|---|---|---|---|
| | | Yes | No |
| Title Records/Environmental Liens or Activity and Use Limitations | | | X |
| Specialized Knowledge or Experience | | | X |
| Relationship of the purchase price to the fair market value | | | X |
| Commonly known or reasonable ascertainable information | | | X |
| The degree of obviousness of the presence or likely presence of contamination | | | X |
| Prior reports and other provided documentation | | | X |

A copy of the questionnaire is located in the appendix. No RECs were determined in the User Questionnaire.

# 4.0 HISTORICAL DOCUMENT REVIEW

Available fire insurance maps, historical aerial photographs, and USGS topographic maps were provided by EDR. Google Earth's historical aerial photographs were also reviewed to help determine prior usage of The Subject Property and adjoining properties and are discussed in the following tables.

- USGS 15-minute topographical maps of Santa Ana & Anaheim, CA published in 1896
- USGS 15-minute topographical map of Anaheim, CA published in 1898
- USGS 15-minute topographical maps of Santa Ana & Anaheim, CA published in 1901
- USGS 30-minute topographical map of Corona, CA published in 1902
- USGS 7.5-minute topographical maps of Orange & Tustin, CA published in 1932
- USGS 7.5-minute topographical maps of Orange & Tustin, CA published in 1935
- USGS 7.5-minute topographical maps of Santa Ana & Anaheim, CA published in 1942
- USGS 7.5-minute topographical maps of Tustin & Orange, CA published in 1948, 1949
- USGS 7.5-minute topographical maps of Tustin & Orange, CA published in 1950
- USGS 7.5-minute topographical maps of Orange & Tustin, CA published in 1964,1965
- USGS 7.5-minute topographical maps of Tustin & Orange, CA published in 1972
- USGS 7.5-minute topographical maps of Orange & Tustin, CA published in 1981
- USGS 7.5-minute topographical maps of Orange & Tustin, CA published in 2012

**Historical Topographic Map Review**

| Year | Media | The Subject Property | Adjoining Properties |
|---|---|---|---|
| - | Fire Insurance Map | N/A | N/A |
| 1896 | USGS Topo Map | The Subject Property is native land. | Surrounding properties are native land. Unnamed roads are visible to the east of the site. |
| 1898 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |
| 1901 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |
| 1902 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |
| 1932 | USGS Topo Map | Cross streets of The Subject Property are now developed. Tustin is labeled, Santa Clara is not. The Subject Property is undeveloped. | Most main roads are visible in current configurations. Adjoining properties undeveloped. The cemetery to the west has been established. |
| 1935 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |
| 1942 | USGS Topo Map | Topographic symbology indicates that The Subject Property is agricultural fields | Topographic symbology indicates that most adjoining properties are agricultural fields. |
| 1948, 1949 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |

| | | | |
|---|---|---|---|
| 1950 | USGS Topo Map | Same as previous topo map. | Same as previous topo map. |
| 1964, 1965 | USGS Topo Map | A structure has been mapped on The Subject Property. | The surrounding area is being developed. Property to the south has been developed. I-5 and CA-55 highways have been established. |
| 1972 | USGS Topo Map | The Subject Property is not agricultural land. | Adjoining property to the north has been developed. Other developments in the area continue. Most agricultural land has been developed. CA-22 has been established. |
| 1981 | USGS Topo Map | Two more structures have been built on The Subject Property. | More surrounding agricultural lands have been developed. |
| 2012 | USGS Topo Map | All property structures are not visible. | All streets are in current configurations. Buildings are not noted on the map. |

**Historical Aerial Photograph Review**

| Year | Media | The Subject Property | Adjoining Properties |
|---|---|---|---|
| 1938 | Aerial Photo | The Subject Property agricultural. Cross streets are visible. | Adjoining properties are undeveloped or agricultural orchards. The cemetery to the west is visible. |
| 1946 | Aerial Photo | Same as previous aerial photo. | Same as previous aerial photo. |
| 1952 | Aerial Photo | Some trees have been removed from the property. | Same as previous aerial photo. |
| 1963 | Aerial Photo | The Subject Property has been cleared for property to be built. | The I-5 freeway has been established. Much of the surrounding areas have been developed. |
| 1966 | Aerial Photo | A permanent structure has been established at The Subject Property. | The surrounding areas continue development. |
| 1972 | Aerial Photo | The Subject Property is now residential with large trees. | Most of the surrounding area has been developed with residential structures to the south and north, commercial structures to the west, and industrial structures to the north. Some agricultural lands remain. The market and apartments to the north and highway patrol offices have been developed. |
| 1977 | Aerial Photo | Same as previous aerial photo. | Some surrounding properties continue development. |
| 1985 | Aerial Photo | Two other permanent structures on The Subject Property have been established. | Some surrounding properties continue development. |
| 1989 | Aerial Photo | Same as previous aerial photo. | Same as previous aerial photo. |
| 1995 | Aerial Photo | Same as previous aerial photo. | Some surrounding properties continue development. |
| 2002 | Aerial Photo | Last structure has been established on The Subject Property. | Some surrounding properties continue development. |
| 2005 | Aerial Photo | Same as previous aerial photo. | Some surrounding properties continue development. |

| | | | |
|---|---|---|---|
| 2009 | Aerial Photo | Same as previous aerial photo. | Same as previous aerial photo. |
| 2012 | Aerial Photo | Same as previous aerial photo. | Same as previous aerial photo. |
| 2016 | Aerial Photo | Same as previous aerial photo. | Same as previous aerial photo. |
| 2021 | Google Earth | Same as previous aerial photo. | Same as previous aerial photo. |

**Historical City Directory Review**

The City Directory Report provided by EDR was reviewed for The Subject Property, adjoining properties and other properties that may pose an environmental concern.

| City Directory for The Subject Property and Adjoining Properties | | |
|---|---|---|
| **Direction** | **Address** | **Occupant** |
| Subject Property | APN: 396-261-38<br>2109 E Santa Clara Ave | Residential listings |
| North | 2360 N Tustin Ave | Stater Brothers Markets |
| East | 2300 N Tustin Ave | Del Taco |
| South | 2034 E Santa Clara Ave | Residential listings |
| West | 2031 E Santa Clara Ave | California Highway Patrol |

Properties of environmental concern: None. Please refer to Section 5.0 for the findings of federal and state agency database findings of The Subject Property.

No RECs were determined during the Historical Document review because there are no reported releases or open cases.

# 5.0 RECORDS REVIEW

**Federal and State/Tribal Database**

EDR provided the regulatory agency database report for all applicable State, Federal, and Tribal databases included in this assessment. The EDR report is included in its entirety in the Appendices of this report.

Regulatory Database listings associated with The Subject Property, adjoining properties or potential sites of concern are discussed further in Federal Agency Database Findings. To determine if a database listing represents an environmental concern to The Subject Property (consists of a likely past, present or material threat of release to The Subject Property), UES uses the general following guidelines based on: distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases.

**ASTM Required Database Searches and Results**

| Description of Record Source | Search Distance | Subject Property Listed? | Adjoining Property Listed? | Total Listings |
|---|---|---|---|---|
| Federal National Priorities List (NPL) | 1.0 mile | No | No | 0 |
| Federal Delisted NPL | 0.5 mile | No | No | 0 |
| Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list | 0.5 mile | No | No | 0 |
| Federal CERCLIS No Further Remedial Action Planned (NFRAP) site list | 0.5 mile | No | No | 0 |
| Federal Resource Conservation and Recovery Act (RCRA), Corrective Action CORRACTS facilities list | 1.0 mile | No | No | 0 |
| Federal RCRA non-CORRACTS Treatment, Storage, and Disposal (TSD) facilities list | 0.5 mile | No | No | 0 |
| Federal RCRA Generators | Subject Property & adjoining property | No | No | 0 |
| Federal institutional control/engineering control registries | Subject Property | No | | 0 |
| Federal Emergency Response (ERNS) list | Subject Property | No | | 0 |
| State- and tribal-equivalent NPL | 1.0 mile | No | No | 0 |
| State- and tribal-equivalent CERCLIS (SHWS) | 0.5 | No | No | 1 |
| State and tribal landfill and/or solid waste disposal site lists (SWF/LF) | 0.5 | No | No | 0 |
| State and tribal Leaking Underground Storage Tank (LUST) lists | 0.5 | No | No | 14 |
| State and tribal registered Underground Storage Tank (UST) lists | Subject Property & adjoining property | No | No | 3 |
| State and tribal institutional control/engineering control registries | Subject Property & adjoining property | No | No | 0 |
| State and tribal voluntary cleanup sites | 0.5 mile | No | No | 1 |
| State and tribal Brownfield sites | 0.5 mile | No | No | 0 |
| Orphan Listings | - | No | No | 20 |
| Additional Databases | Subject Property & adjoining property | No | No | 92 |

**Federal and State Agency Database Findings**

UES requested records for The Subject Property, adjoining properties and other properties of environmental concern from State and Local Agencies such as the CalEPA, EnviroStor and GeoTracker.

EDR oversees and maintains records on UST inspections, RCRA inspections and solid waste inspections/complaints within Orange County. CalEPA combines data about environmentally regulated sites and facilities within California. EnviroStor is the Department of Toxic Substances Control's data management system for tracking cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons to investigate further. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker also contains records for sites that require cleanup, such as Leaking Underground Storage Tank (LUST) Sites, Department of Defense Sites, and Cleanup Program Sites in addition to other unregulated projects.

The following sites were identified and are discussed below:

| **Name** | **Stater Brothers Markets** |
|---|---|
| **Address** | **2360 N Tustin Ave** |
| **Distance and Direction** | 0.026 mi to the N |
| **Hydrologic Position** | Upgradient |
| **Databases Listed** | **CERS HAZ WASTE, CERS, RCRA NONGEN/NLR** |
| Hazardous waste is pharmaceuticals. No violations have been noted, and no odors or discolored soil were observed in borings to indicate contamination. | |

| **Name** | **California Highway Patrol** |
|---|---|
| **Address** | **2031 E Santa Clara Ave** |
| **Distance and Direction** | 0.041 mi to the W |
| **Hydrologic Position** | Upgradient |
| **Databases Listed** | **HWTS, HIST UST, HAZNET, CA FID UST, CERS TANKS, CERS HAZ WASTE, CERS, FINDS, ECHO, RCRA-SQR, RCRA NONGEN/NLR, AST** |
| This site is an environmental concern, but not a REC. Violations noted are:<br>• Monthly inspections were not conducted on aboveground tanks as of 03/24/2021.<br>• Inadequate completion and electronic submission of hazardous materials inventory information, inadequate completion and electronic submission of the annotated Site Map with all required content as of 11/13/2017.<br>• Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. Returned to compliance on 12/22/2014, 01/13/2015, 02/08/2019, 06/09/2021. | |

| **Name** | **Canyon Crest Cleaners/ Goldenwest Cleaners** |
|---|---|
| **Address** | **2380 N Tustin Ave** |
| **Distance and Direction** | 0.077 mi to the N |
| **Hydrologic Position** | Upgradient |
| **Databases Listed** | **HWTS, DRYCLEANERS, HAZNET, EDR HIST CLEANER, RCRA NONGEN/NLR** |

| |
|---|
| Site is an environmental concern, but not a REC. Solvent disposal does not occur on site and therefore does not affect The Subject Property. According to the City Directory, the cleaners was established in 1975. Disposal location is unknown. No violations were found. Since there are no documented releases associated with this facility, this site is not considered a REC. |

| | |
|---|---|
| **Name** | **Allen Tire Company** |
| **Address** | **2401 N Tustin Ave** |
| **Distance and Direction** | 0.088 mi to the NE |
| **Hydrologic Position** | Upgradient |
| **Databases Listed** | **EDR HIST AUTO, LUST, RCRA NONGEN/NLR, HWTS, CERS HAZ WASTE, CERS** |
| Site is verified as not a federal waste generator. Potential contaminants of concern were waste oil / motor / hydraulic / lubrication. Potential media of concern was soil. Underground storage tanks were closed to regulatory requirements September 11, 1996. | |

| | |
|---|---|
| **Name** | **Shell Service Station** |
| **Address** | **889 S Tustin Ave** |
| **Distance and Direction** | 0.408 mi to the N |
| **Hydrologic Position** | Upgradient |
| **Databases Listed** | **LUST, CORTESE, CERS, HWTS, HAZNET** |
| Case was closed to regulatory requirements September 21, 1998. Potential contaminant of concern was gasoline. Potential media of concern was soil. | |

### Orphan listings

Orphan listings are sites that cannot be mapped due to poor or inadequate address information. EDR lists 1 orphan listing within the Radius Report. The orphan sites listed appear to be greater than one mile from The Subject Property and are not a REC to The Subject Property.

The remaining sites listed in the EDR Radius report are not considered RECs for The Subject Property due to their location with groundwater gradient, and/or type of release reported (closed cases with impacts to soil only).

### Vapor Migration

UES used the EDR Vapor Encroachment Screen tool to assess listings for potential vapor encroachment risk to The Subject Property. Each listing was eliminated based on one or more of the following parameters: no recorded release, impacts to soil only, distance from The Subject Property and/or regulatory closure.

### Oil and Gas Pipelines

A review of the National Pipeline Mapping System (NPMS) website was conducted for the vicinity of The Subject Property. The NPMS website shows locations of oil and gas pipelines as well as incidents/accidents associated with those pipelines. No pipelines are indicated on or adjoining to The Subject Property.

# 6.0 SITE RECONNAISSANCE

### Methodology and Limiting Conditions

| Site Reconnaissance | |
|---|---|
| Site Reconnaissance Date | October 20, 2021 |
| Weather Conditions | Clear, partly cloudy, 52°F |
| Site Reconnaissance Conducted By | Alexia Mackey |
| Site Contact/Title | David Rowley |
| Significant Inaccessible Areas | - |
| Limiting Conditions | None |

The entire unimproved site was traversed in a grid pattern to minimize uncovered areas. The Subject Property was walked and photographed from all adjoining properties, and the development of the adjoining properties was noted and photographed. A selection of photographs are included in the Appendices. The following sections describe the observations made during the site visit.

There are two houses on the property, and two detached garages. Those results are included in a separate report. Sewage pipes and gas lines were observed. These facilities are run by the City of Santa Ana and Orange County.

### General Site Setting

### Current Use(s) of The Subject Property

The Subject Property is currently residential comprised of two one-story homes with two one-story detached garages. 2101 E Santa Clara Ave is uninhabited. Stream Realty has an employee living in 2109 E Santa Clara Ave, which also has a pool in the backyard.

### Past Uses(s) of The Subject Property

No obvious indication of past usage of The Subject Property likely to have involved the use, treatment storage, disposal or generation of hazardous substances or petroleum products was observed at the time of the site visit. Please refer to Section 4.0 for the findings of historical use research of The Subject Property.

### Current Uses(s) of the Adjoining Properties

The following describes adjoining properties:

| Direction | Description |
|---|---|
| North | Commercial |
| East | Commercial |
| South | Residential |

| | |
|---|---|
| West | Cemetery |

No Visual observations indicative of a potential environmental concern were noted of the adjoining properties.

**Past Uses(s) of Adjoining Properties**

No obvious indication of past uses of adjoining properties was noted at the time of the site visit likely to have involved the use, treatment, storage, disposal or generation of hazardous substances or petroleum products.

Please refer to Section 4.0 for the findings of historical use research.

**Current/Past Uses of Surrounding Area**

The Subject Property and vicinity is located in a residential/ commercial area of Santa Ana.

**Interior and Exterior Observations**

**General Description of Structures on The Subject Property**

There are 4 one-story buildings, approximately 20 to 55 years old.

**General Description of Roads on The Subject Property**

E Santa Clara Ave adjoins the Subject Property to the south. N Tustin Ave is the nearest cross street to the east.

**Utilities**

Public utilities are available at The Subject Property.

**Site Observations**

The following table represents observations made at The Subject Property. Any observations marked Yes will be discussed further below the table.

| Interior and Exterior Observations | Identified during Site Reconnaissance? (Yes/No) |
|---|---|
| Hazardous Substances or Petroleum Products in Connection with Identified Uses | No |
| Underground Storage Tanks (UST) | No |
| Above ground Storage Tanks (AST) | No |
| Odors | No |
| Pools of Liquid | No |
| Drums | No |
| Unidentified Substance Containers | No |
| Indications of Polychlorinated Biphenyl (PCBs) | No |
| Stains or Corrosion | No |
| Drains or Sumps | No |
| Pits, Ponds or Lagoons (Subject Property and/or Adjoining Property) | No |

| | |
|---|---|
| Stained Soil or Pavement | No |
| Stressed Vegetation | No |
| Indications of Solid Waste Disposal | No |
| Waste Water (Subject Property and/or Adjoining Property) | No |
| Wells | No |
| Septic Systems | No |

**Additional Observations**

The following additional observations were made on The Subject Property during the site visit:

- Water damage was observed on the property.
- There are several water heaters on the property.
- Houses are on public sewage systems.

# 7.0 INTERVIEWS

Mr. David Rowley, property manager, accompanied UES during the site reconnaissance. Mr. David Rowley indicated that one of the houses (2109 E Santa Clara Ave) is currently occupied.

Mr. Martin Pupil, Partner with Stream Realty, completed the interview questionnaire provided by UES on October 4, 2021. Mr. Pupil indicated he had no knowledge of any historical or current uses of The Subject Property or adjoining properties that might have involved the use of hazardous substances and/or petroleum products which might impact The Subject Property. There are no RECs identified from the responses to the interview questionnaire. A copy of the questionnaire can be found in the appendix.

# 8.0 NON-ASTM SCOPE CONCERNS

UES conducted evaluations of asbestos-containing material and lead-based paint on October 26 and 27, 2021 separate from this Phase I ESA. Results will be sent in a separate follow up report.

# 9.0 ENVIRONMENTAL PROFESSIONAL DECLARATION AND JURAT

**Environmental Professional Statement**

*The following declaration is provided in accordance with ASTM E 1527-13.*

> "I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40CFR 312 and I have the specific qualifications to assess a property of the nature, history and setting of The Subject Property. I have developed and performed the all appropriate inquiries in conformance with standards and practices set forth in 40 CFR part 312."

**Environmental Certification Jurat**

*The following certification is provided in compliance with California Administrative Code 459.97285.*

> "I hereby certify that I am responsible for the services described in this document. The services described in this Phase I Environmental Site Assessment and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and to the best of my knowledge comply with all applicable federal, state, and local statutes, regulations and ordinances."

Prepared by:

Alexia Mackey

Alexia Mackey
Staff Scientist

Reviewed by:

Dean Stanphill, P.E., G.E.
Principal
CA P.E. 43612 (Expires 12.31.2022)

# 10.0 QUALIFICATIONS

**Dean Stanphill**

Mr. Stanphill is a registered California Civil and Geotechnical engineer with 35 years of applicable experience. He holds a Bachelors Degree in Civil Engineering from San Diego State University as well as a Masters in Business Administration from California State University San Bernardino. Mr. Stanphill's experience includes, environmental sampling and analysis, and Phase I and Phase II environmental site assessments, and environmental site characterization and remediation.

**Alexia Mackey**

Ms. Alexia Mackey is currently an Staff Scientist for UES in Irvine, California. She has 1 year of experience in environmental and engineering projects. Ms. Mackey holds a Bachelor of Science in Civil Engineering- Environmental with minors in Regenerative Studies and Geology. Ms. Mackey's experience includes soil and groundwater sampling, drilling and excavation oversight, Phase I environmental site assessments, environmental site characterization, and environmental sampling and analysis.

# 11.0 REFERENCES

ASTM E-1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

CalEPA Regulated Site Portal, 2021, https://siteportal.calepa.ca.gov/nsite/map/help, accessed October 2021.

California Department of Water Resources, 2021, Online Water Data Library, https://wdl.water.ca.gov/, accessed October 2021.

California Geological Survey, 2021, Earthquake Zones of Required Investigation, https://maps.conservation.ca.gov/cgs/EQZApp/app/, accessed October 2021.

California State Water Resources Control Board, 2021, Online GeoTracker Database, https://geotracker.waterboards.ca.gov/, accessed October 2021.

EDR, Aerial Photo Decade Package, October, 2021.

EDR, City Directory Report, October, 2021.

EDR, Radius Map Report, October, 2021.

EDR, Historical Topographic Map Report, October, 2021.

National Pipeline Mapping System, 2021, https://www.npms.phmsa.dot.gov/, accessed October 2021.

Orange County Assessor's Database Search, Parcel Ownership History, Real Property Parcel Record, performed in October, 2021.

U.S. Geological Survey Quaternary Faults Database, 2021, https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=5a6038b3a1684561a9b0aadf88412fcf, accessed October 2021.

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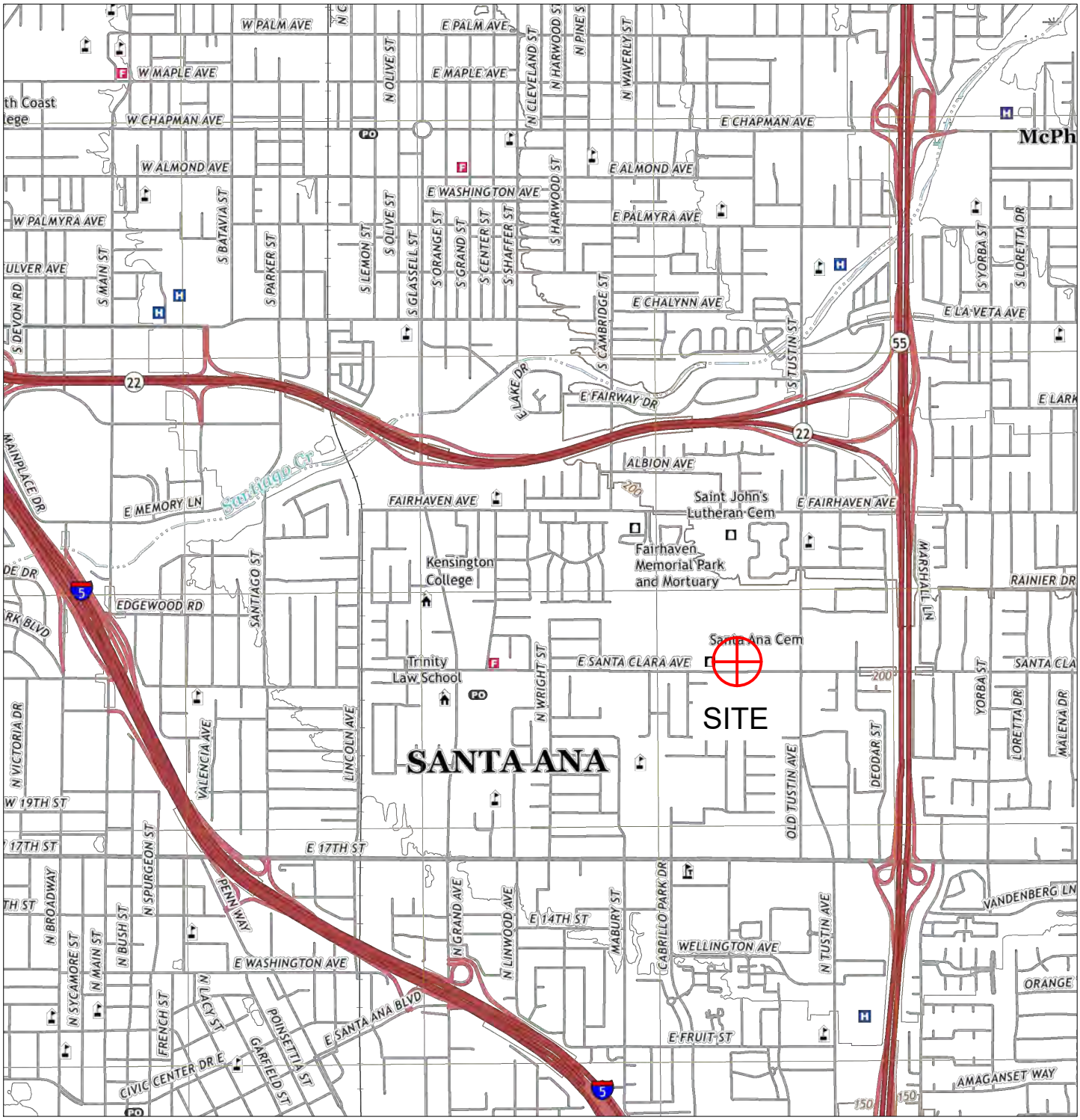
# FIGURES

# Figure 1: Site Location

# Figure 2: Site Plan




**APPROXIMATE SITE LOCATION**

SCALE IN FEET

0 1000' 2000'

REFERENCE: USGS "Orange 7.5-Minute Quadrangle" (2018)

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## SITE VICINITY LOCATION MAP

McDonald's
2109 E Santa Clara Ave
Santa Ana, California

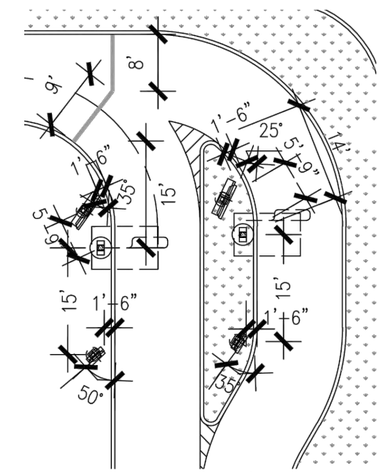
| PROJECT NO. | REPORT DATE | FIGURE 1 |
|---|---|---|
| 4230.2100035.0000 | October 2021 | |

SITE INFORMATION

TOTAL BUILDING AREA: ±3,990 SF
(NOT INCLUDE UTILITY AREAS)

PARKING INFORMATION

PARKING REQUIREMENT:
8 SPACES PER 1,000 SF OF GFA
STALLS REQUIRED: 32 STALLS
STALLS PROVIDED: 29 STALLS



DRIVE-THRU ENLARGED PLAN
Scale: 1" = 20'

LEGEND

SCALE IN FEET
0 16 32

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NOTE: All dimensions, locations, and directions are approximate.
REFERENCE: McDonald's USA "Soils Borings" pg. 1 (2021)

**SITE PLAN AND BORING LOCATION MAP**

McDonald's
2109 E Santa Clara Ave
Santa Ana, California

| PROJECT NO. | REPORT DATE | FIGURE 2 |
|---|---|---|
| 4230.2100035.0000 | October 2021 | |

# APPENDICIES

# Site Photographs

| 1. View of 2101 E Santa Clara Ave, southwest to north | 2. View of 2101 E Santa Clara Ave, south to northwest |
|---|---|
| | |

| 3. View of detached garage at 2101 E Santa Clara Ave, south to northwest | 4. View of 2101 E Santa Clara Ave (left) and 2109 E Santa Clara Ave (right) from south to northwest |
|---|---|
| | |

| 5. View of 2109 E Santa Clara Ave, east to west | 6. View of 2109 E Santa Clara Ave pool, south to north |
|---|---|
| | |

# Orange County Assessor's Office

# Parcel Information

**Mcdonalds Santa Ana**
2109 E Santa Clara Avenue
Santa Ana, CA 92705

Inquiry Number: 6703026.5
October 18, 2021

# The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

# TABLE OF CONTENTS

## SECTION

**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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# EXECUTIVE SUMMARY

## DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

## RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by infoUSA®

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## RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 2014 | Cole Information Services | X | X | X | - |
| 2009 | Cole Information Services | X | X | X | - |
| 2004 | Cole Information Services | X | X | X | - |
| 2002 | Haines Company | - | X | X | - |
| 2001 | Pacific Telephone | - | - | - | - |
| 1999 | Cole Information Services | - | X | X | - |
| 1997 | Pacific Telephone | - | - | - | - |
| 1995 | Pacific Bell | - | X | X | - |
| 1994 | Cole Information Services | - | X | X | - |
| 1992 | Pacific Bell | - | - | - | - |

# EXECUTIVE SUMMARY

| Year | Source | TP | Adjoining | Text Abstract | Source Image |
|---|---|---|---|---|---|
| 1991 | Pacific Bell | - | X | X | - |
| 1986 | Pacific Bell | - | X | X | - |
| 1980 | Pacific Telephone | - | X | X | - |
| 1975 | Luskey Brothers & Co., Inc. | - | X | X | - |
| | Luskey Brothers & Co., Inc. | X | X | X | - |
| 1971 | Luskey Brothers Co., Inc. | - | - | - | - |
| 1970 | General Telephone Co., of California | - | X | X | - |
| | General Telephone Co., of California | X | X | X | - |
| 1966 | Pacific Telephone | - | X | X | - |
| | Pacific Telephone | X | X | X | - |
| 1965 | Luskey Brothers | - | X | X | - |
| | Luskey Brothers | X | X | X | - |
| 1961 | Luskey Brothers & Co., | - | - | - | - |
| 1960 | Luskey Brothers & Co., | - | X | X | - |
| 1956 | Luskey Brothers & Co., Inc. | - | - | - | - |
| 1955 | The Pacific Telephone and Telegraph Co. | - | - | - | - |
| 1952 | Luskeys Directory Service Co. | - | X | X | - |
| 1950 | West Directory Co. | - | - | - | - |
| 1946 | Southern California Telephone Co. | - | - | - | - |
| 1945 | McCutcheon & Bragonier | - | - | - | - |
| 1941 | Southern California Telephone Co. | - | - | - | - |
| 1936 | Western Directory Co. | - | - | - | - |
| 1930 | Western Directory Co. | - | - | - | - |
| 1926 | Pacific Telephone | - | - | - | - |
| 1925 | Western Directory Co. | - | - | - | - |
| 1922 | Kaasen Directory Co. | - | - | - | - |
| 1921 | Western Directory Co. | - | - | - | - |
| 1920 | Santa Ana Directory Co. | - | - | - | - |

# EXECUTIVE SUMMARY

## SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

| *Address* | *Type* | *Findings* |
|---|---|---|
| N Tustin Ave | Client Entered | |

# FINDINGS

## TARGET PROPERTY INFORMATION

### ADDRESS

2109 E Santa Clara Avenue
Santa Ana, CA 92705

### FINDINGS DETAIL

Target Property research detail.

## E SANTA CLARA AVE

**2109 E SANTA CLARA AVE**

| *Year* | *Uses* | *Source* |
|---|---|---|
| 2014 | DORIS NEWCOMB | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| 1975 | New comb Robt | Luskey Brothers & Co., Inc. |
| 1970 | New comnb Robt | General Telephone Co., of California |
| 1966 | New comb Robt | Pacific Telephone |
| 1965 | New comb R | Luskey Brothers |

# FINDINGS

## ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

## BUFFALO AVE

**2201 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | SWOOLPERTJack | Haines Company |

**2203 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | XXXX | Haines Company |

**2204 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | XXXX | Haines Company |

**2206 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | SLOEFFLER Donald | Haines Company |

**2208 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | KOUDSIBasem | Haines Company |

**2212 BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | XXXX | Haines Company |

## E BUFFALO AVE

**2201 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | TOMY MAKIL | Cole Information Services |
| 2009 | RAUL ARREDONDO | Cole Information Services |
| 2004 | FELIX CARBAJAL | Cole Information Services |
| | FELIX CARBAJAL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | JOSEPH & ROSA MANCINI | Cole Information Services |
| 1999 | RAUL ARREDONDO | Cole Information Services |
| 1980 | Sena Bernice | Pacific Telephone |

**2202 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | G QUIROZ | Cole Information Services |
| | G QUIROZ | Cole Information Services |
| 2009 | JULIO MENDOZA | Cole Information Services |
| | JULIO MENDOZA | Cole Information Services |
| 1999 | JULIO MENDOZA | Cole Information Services |
| | JULIO MENDOZA | Cole Information Services |
| 1991 | Baird Ron | Pacific Bell |
| 1986 | Stewart Phillips Advertising & Public Relations | Pacific Bell |
| | Ryder Mick | Pacific Bell |
| 1980 | Stewart M W | Pacific Telephone |
| | Stewart J | Pacific Telephone |

**2203 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | MARIO SANCHEZ | Cole Information Services |
| 2004 | ADOLFO RIVERA | Cole Information Services |

**2204 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2009 | MARTIN PEREZ | Cole Information Services |
| | MARTIN PEREZ | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1999 | MARTIN PEREZ | Cole Information Services |
| | MARTIN PEREZ | Cole Information Services |

# FINDINGS

**2206 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | SABRINA PEAVEY | Cole Information Services |
| | SABRINA PEAVEY | Cole Information Services |
| 2009 | WENDY NIERMAN | Cole Information Services |
| | WENDY NIERMAN | Cole Information Services |
| 2004 | TOMY MAKIL | Cole Information Services |
| | TOMY MAKIL | Cole Information Services |
| 1999 | WENDY NIERMAN | Cole Information Services |
| | WENDY NIERMAN | Cole Information Services |
| 1980 | Thorngren David L | Pacific Telephone |

**2208 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ANA DURAN | Cole Information Services |
| | ANA DURAN | Cole Information Services |
| 2009 | SARA AGRAZSANCHEZ | Cole Information Services |
| | SARA AGRAZSANCHEZ | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1999 | CALIF MISSIONS REAL ESTATE | Cole Information Services |
| | SARA AGRAZSANCHEZ | Cole Information Services |
| | CALIF MISSIONS REAL ESTATE | Cole Information Services |
| | SARA AGRAZSANCHEZ | Cole Information Services |
| 1995 | Calif Missions Real Estate | Pacific Bell |
| | Gonzalez Alicia Lopez | Pacific Bell |
| 1991 | Gallardo Joe | Pacific Bell |
| 1980 | Now ell Robt M | Pacific Telephone |
| | Hall J E | Pacific Telephone |

**2210 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2009 | BRIAN FLOYD | Cole Information Services |
| | BRIAN FLOYD | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| 1999 | BRIAN FLOYD | Cole Information Services |
| | BRIAN FLOYD | Cole Information Services |

**2212 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ERICA WALTERS | Cole Information Services |
| | ERICA WALTERS | Cole Information Services |
| 2009 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1986 | Moore Betty A | Pacific Bell |
| 1980 | Moore Betty A | Pacific Telephone |

**2220 E BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 1952 | Spurgeon east | Luskeys Directory Service Co. |

## E E SANTA CLARA AVE

**2205 E E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 1975 | Roberts Leslie | Luskey Brothers & Co., Inc. |

## E SANTA CLARA AVE

**2002 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | GEORGE AGUIRRE | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | JOSHUA DEMENDOZA | Cole Information Services |
| | MATTHEW DIEKMANN | Cole Information Services |
| | DON HIGASHI | Cole Information Services |
| | JOSHUA LOSEY | Cole Information Services |
| | EARL STROHM | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | CHRISTINE WALKER | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| | JOSE TORRES | Cole Information Services |
| | VERONIQUE WAICHOON | Cole Information Services |
| | ALLEN AUTAGAVAIA | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | JANIE DUE | Cole Information Services |
| | KEVIN FLORES | Cole Information Services |
| | GEORGETTE FRIERSON | Cole Information Services |
| | ABRAHIM HASSAN | Cole Information Services |
| | JENNA LANDERO | Cole Information Services |
| | APRIL NASH | Cole Information Services |
| | RANDY ORTEGA | Cole Information Services |
| | TRAVIS SCHLABACH | Cole Information Services |
| | CHRISTOPHER SMITH | Cole Information Services |
| | SHELLY WEAVER | Cole Information Services |
| | AUDREY JIMENEZ | Cole Information Services |
| | JANICE RUPERT | Cole Information Services |
| | BRYANT WALSTON | Cole Information Services |
| | JOSE LOPEZ | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | DONNA PEREZ | Cole Information Services |
| | ALAN WEMYSS | Cole Information Services |
| | HANS GONZALEZ | Cole Information Services |
| | CARSON APRATO | Cole Information Services |
| | TRINITY AUGUST-NORTON | Cole Information Services |
| | KATHY DALTON | Cole Information Services |
| | GEORGE AGUIRRE | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | JOSHUA DEMENDOZA | Cole Information Services |
| | MATTHEW DIEKMANN | Cole Information Services |
| | DON HIGASHI | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | JOSHUA LOSEY | Cole Information Services |
| | EARL STROHM | Cole Information Services |
| | CHRISTINE WALKER | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| | JOSE TORRES | Cole Information Services |
| | VERONIQUE WAICHOON | Cole Information Services |
| | ALLEN AUTAGAVAIA | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | JANIE DUE | Cole Information Services |
| | KEVIN FLORES | Cole Information Services |
| | GEORGETTE FRIERSON | Cole Information Services |
| | ABRAHIM HASSAN | Cole Information Services |
| | AUDREY JIMENEZ | Cole Information Services |
| | JENNA LANDERO | Cole Information Services |
| | APRIL NASH | Cole Information Services |
| | RANDY ORTEGA | Cole Information Services |
| | TRAVIS SCHLABACH | Cole Information Services |
| | CHRISTOPHER SMITH | Cole Information Services |
| | SHELLY WEAVER | Cole Information Services |
| | JANICE RUPERT | Cole Information Services |
| | BRYANT WALSTON | Cole Information Services |
| | JOSE LOPEZ | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | DONNA PEREZ | Cole Information Services |
| | ALAN WEMYSS | Cole Information Services |
| | HANS GONZALEZ | Cole Information Services |
| | CARSON APRATO | Cole Information Services |
| | TRINITY AUGUST-NORTON | Cole Information Services |
| | KATHY DALTON | Cole Information Services |
| 2009 | RAYMOND JAUREQUI | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | MAURICIO OCHOA | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | HARDY ALLEN | Cole Information Services |
| | ROBERT QUAID | Cole Information Services |
| | DANIEL GARCIA | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | GAIL ASKEW | Cole Information Services |
| | NOE AGUILAR | Cole Information Services |
| | DOUG HARMS | Cole Information Services |
| | GEORGE TADROS | Cole Information Services |
| | GARY WATKINS | Cole Information Services |
| | MARIA BUEZO | Cole Information Services |
| | ARLENE FORD | Cole Information Services |
| | ASHWIN CHANDRA | Cole Information Services |
| | GEORGE AGUIRRE | Cole Information Services |
| | CHRISTY APRATO | Cole Information Services |
| | HARRY CARPENTER | Cole Information Services |
| | PAUL MARTINEZ | Cole Information Services |
| | ANDREW ARMENTA | Cole Information Services |
| | JO HENDERSON | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| | ERIK CARPENTER | Cole Information Services |
| | DIANA BARAJAS | Cole Information Services |
| | ELISABETH RANGEL | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | VASATI SAUILEMAU | Cole Information Services |
| | ANDY MONEY | Cole Information Services |
| | MIKE DEVORE | Cole Information Services |
| | BRIAN PACE | Cole Information Services |
| | STERLING PROPERTY MANAGEMENT | Cole Information Services |
| | ALECXIS SANCHEZ | Cole Information Services |
| | MAURICIO OCHOA | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | ALECXIS SANCHEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | HARDY ALLEN | Cole Information Services |
| | DANIEL GARCIA | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | ROBERT QUAID | Cole Information Services |
| | GAIL ASKEW | Cole Information Services |
| | NOE AGUILAR | Cole Information Services |
| | DOUG HARMS | Cole Information Services |
| | GEORGE TADROS | Cole Information Services |
| | GARY WATKINS | Cole Information Services |
| | MARIA BUEZO | Cole Information Services |
| | ARLENE FORD | Cole Information Services |
| | ASHWIN CHANDRA | Cole Information Services |
| | GEORGE AGUIRRE | Cole Information Services |
| | CHRISTY APRATO | Cole Information Services |
| | HARRY CARPENTER | Cole Information Services |
| | PAUL MARTINEZ | Cole Information Services |
| | ANDREW ARMENTA | Cole Information Services |
| | JO HENDERSON | Cole Information Services |
| | ERIK CARPENTER | Cole Information Services |
| | DIANA BARAJAS | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | ANDY MONEY | Cole Information Services |
| | ELISABETH RANGEL | Cole Information Services |
| | VASATI SAUILEMAU | Cole Information Services |
| | MIKE DEVORE | Cole Information Services |
| | BRIAN PACE | Cole Information Services |
| | STERLING PROPERTY MANAGEMENT | Cole Information Services |
| | RAYMOND JAUREQUI | Cole Information Services |
| 2004 | MANGO TREE APARTMENTS | Cole Information Services |
| | LEON TUER | Cole Information Services |
| | PAMELA CRECELIUS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | VICTOR CASTRO | Cole Information Services |
| | CHRISTINA ROCHA | Cole Information Services |
| | RHONDA SMITH | Cole Information Services |
| | ANTONIO HEREDIA | Cole Information Services |
| | GREGORIO HERNANDEZ | Cole Information Services |
| | PAUL STRADER | Cole Information Services |
| | J DEAN | Cole Information Services |
| | MONICA MATLOCK | Cole Information Services |
| | JAMI KABISCH | Cole Information Services |
| | ARLINA AYALA | Cole Information Services |
| | JAMES MASATSUGU | Cole Information Services |
| | ROBIN HYDE | Cole Information Services |
| | NATHANIEL ROBERSON | Cole Information Services |
| | MINDY GREGERSEN | Cole Information Services |
| | KRISTOPHER GARCIA | Cole Information Services |
| | JACCI LANE | Cole Information Services |
| | GEORGE BURGESS | Cole Information Services |
| | HARDY ALLEN | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | EDWARDO MENESES | Cole Information Services |
| | DALLAS HERROLD | Cole Information Services |
| | SCOTT CROSS | Cole Information Services |
| | MARY BOLDEN | Cole Information Services |
| | MARTHA GONZALES | Cole Information Services |
| | CARL SAWYER | Cole Information Services |
| | VERA TODD | Cole Information Services |
| | C CLARK | Cole Information Services |
| | NOAH BLAKEMORE | Cole Information Services |
| | PATRICIA VANNATTAN | Cole Information Services |
| | MARK HESS | Cole Information Services |
| | CARLTON DAHLMAN | Cole Information Services |
| | SCOTT BECK | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | CARL MARINER | Cole Information Services |
| | PATRICIA ENGELHARDT | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | RHONDA SMITH | Cole Information Services |
| | ANTONIO HEREDIA | Cole Information Services |
| | GREGORIO HERNANDEZ | Cole Information Services |
| | LEON TUER | Cole Information Services |
| | PAMELA CRECELIUS | Cole Information Services |
| | CHRISTINA ROCHA | Cole Information Services |
| | VICTOR CASTRO | Cole Information Services |
| | PAUL STRADER | Cole Information Services |
| | JAMI KABISCH | Cole Information Services |
| | J DEAN | Cole Information Services |
| | MONICA MATLOCK | Cole Information Services |
| | ARLINA AYALA | Cole Information Services |
| | ROBIN HYDE | Cole Information Services |
| | JAMES MASATSUGU | Cole Information Services |
| | NATHANIEL ROBERSON | Cole Information Services |
| | JACCI LANE | Cole Information Services |
| | MINDY GREGERSEN | Cole Information Services |
| | GEORGE BURGESS | Cole Information Services |
| | KRISTOPHER GARCIA | Cole Information Services |
| | HARDY ALLEN | Cole Information Services |
| | EDWARDO MENESES | Cole Information Services |
| | DALLAS HERROLD | Cole Information Services |
| | RUDY MARIMAN | Cole Information Services |
| | SCOTT CROSS | Cole Information Services |
| | MARY BOLDEN | Cole Information Services |
| | VERA TODD | Cole Information Services |
| | MARTHA GONZALES | Cole Information Services |
| | C CLARK | Cole Information Services |
| | NOAH BLAKEMORE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | CARL SAWYER | Cole Information Services |
| | PATRICIA VANNATTAN | Cole Information Services |
| | MARK HESS | Cole Information Services |
| | CARLTON DAHLMAN | Cole Information Services |
| | PATRICIA ENGELHARDT | Cole Information Services |
| | SCOTT BECK | Cole Information Services |
| | CARL MARINER | Cole Information Services |
| 1999 | ELISABETH RANGEL | Cole Information Services |
| | MARIA BUEZO | Cole Information Services |
| | JO HENDERSON | Cole Information Services |
| | ANDREW ARMENTA | Cole Information Services |
| | GEORGE AGUIRRE | Cole Information Services |
| | CHRISTY APRATO | Cole Information Services |
| | GARY WATKINS | Cole Information Services |
| | RAYMOND JAUREQUI | Cole Information Services |
| | HARDY ALLEN | Cole Information Services |
| | ROBERT QUAID | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | MIKE DEVORE | Cole Information Services |
| | BRIAN PACE | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | JAMES HAMILTON | Cole Information Services |
| | GAIL ASKEW | Cole Information Services |
| | NOE AGUILAR | Cole Information Services |
| | DOUG HARMS | Cole Information Services |
| | ARLENE FORD | Cole Information Services |
| | GEORGE TADROS | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| | FERNANDO COYCO | Cole Information Services |
| | GARY WATKINS | Cole Information Services |
| | JO HENDERSON | Cole Information Services |
| | ANDREW ARMENTA | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | GEORGE AGUIRRE | Cole Information Services |
| | CHRISTY APRATO | Cole Information Services |
| | GEORGE TADROS | Cole Information Services |
| | RAYMOND JAUREQUI | Cole Information Services |
| | HARDY ALLEN | Cole Information Services |
| | JAMES HAMILTON | Cole Information Services |
| | ELISABETH RANGEL | Cole Information Services |
| | MIKE DEVORE | Cole Information Services |
| | BRIAN PACE | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | ROBERT QUAID | Cole Information Services |
| | GAIL ASKEW | Cole Information Services |
| | NOE AGUILAR | Cole Information Services |
| | DOUG HARMS | Cole Information Services |
| | MARIA BUEZO | Cole Information Services |
| | ARLENE FORD | Cole Information Services |
| | NANCY HOLLEMAN | Cole Information Services |
| 1995 | Burton C J | Pacific Bell |
| | Dabbous Carpet Cleaning | Pacific Bell |
| | Dabbous Nada | Pacific Bell |
| | Hessl ndu M | Pacific Bell |
| | Mango How ard TMED | Pacific Bell |
| | NMango Tree Apartments | Pacific Bell |
| | Saw yer Carl | Pacific Bell |
| | Sullivan Dan I F Dr | Pacific Bell |
| 1994 | QUINN, PAMELA | Cole Information Services |
| | SCZENY, RAYMOND C | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |
| | SULLIVAN, DANIEL F | Cole Information Services |
| | QUINN, PAMELA | Cole Information Services |
| | SCZENY, RAYMOND C | Cole Information Services |
| | MANGO TREE APARTMENTS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | SULLIVAN, DANIEL F | Cole Information Services |
| 1991 | Bell Daniel R | Pacific Bell |
| | Bitter Kalina | Pacific Bell |
| | Burton C J | Pacific Bell |
| | Dabbous Ziad A | Pacific Bell |
| | Davies Mario Mi | Pacific Bell |
| | Eizenga Miguel A | Pacific Bell |
| | Helm Julie | Pacific Bell |
| | Helm L | Pacific Bell |
| | Helm | Pacific Bell |
| | Hess Indu M | Pacific Bell |
| | Light Robert E | Pacific Bell |
| | Lord Walter E Jr | Pacific Bell |
| | Mango Tree Apartments | Pacific Bell |
| | Martinez Gilda | Pacific Bell |
| | Myers David K | Pacific Bell |
| | Prorok Melissa | Pacific Bell |
| | Quinn P | Pacific Bell |
| | Saw yer Carl | Pacific Bell |
| | Schnee Duane J | Pacific Bell |
| | Schnee K | Pacific Bell |
| | Schnee S | Pacific Bell |
| | Sullivan Danl F Dr | Pacific Bell |
| 1986 | Alderton G & C | Pacific Bell |
| | Ballard Roma M | Pacific Bell |
| | Braun D A | Pacific Bell |
| | Davenport Lynette & Les | Pacific Bell |
| | Davies Marno M | Pacific Bell |
| | Driesler Dale | Pacific Bell |
| | Ferrera John | Pacific Bell |
| | Froelich Judith E | Pacific Bell |
| | Kinefelter Katee | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | Mango Tree Apartments | Pacific Bell |
| | Reti J | Pacific Bell |
| | Ruff D E | Pacific Bell |
| | Saw yer Carl | Pacific Bell |
| | Stebbins Robin | Pacific Bell |
| | Sullivan Danl F Dr | Pacific Bell |
| | Sumney Geo & Karen | Pacific Bell |
| | Svitavsky L | Pacific Bell |
| 1980 | Lord Walter E Jr | Pacific Telephone |
| | I Lybeer Robert | Pacific Telephone |
| | Lynch Chester E | Pacific Telephone |
| | Mango Tree Apartments | Pacific Telephone |
| | Myres Jos C | Pacific Telephone |
| | Reti J | Pacific Telephone |
| | Retina Institute | Pacific Telephone |
| | Rivet L | Pacific Telephone |
| | Stansberry Rogers | Pacific Telephone |
| | Sullivan Danl F Dr | Pacific Telephone |
| | Vryhof Mary J | Pacific Telephone |
| | Babaknia Ari | Pacific Telephone |
| | Ballard Roma M | Pacific Telephone |
| | Bayley John | Pacific Telephone |
| | Bethe Margaret M | Pacific Telephone |
| | Braun D A | Pacific Telephone |
| | Bryant Stephen | Pacific Telephone |
| | Cur le G | Pacific Telephone |
| | Davies Mario M | Pacific Telephone |
| | Ferrera John | Pacific Telephone |
| | Fscher Wm | Pacific Telephone |
| | Goglin Robt & Pat | Pacific Telephone |
| | i Gorzeman Leonard | Pacific Telephone |
| | Gray J | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1980 | Jackson Richard H | Pacific Telephone |
| | Keefe E Jack Jr | Pacific Telephone |
| | Froelich Judith E | Pacific Telephone |
| | Yates H Paul | Pacific Telephone |
| 1975 | AAA CONCRETE FINISHER | Luskey Brothers & Co., Inc. |
| | Arnold Robt | Luskey Brothers & Co., Inc. |
| | Babcock Wm N | Luskey Brothers & Co., Inc. |
| | Ballard Roma M | Luskey Brothers & Co., Inc. |
| | Bayley John L | Luskey Brothers & Co., Inc. |
| | Behers Frank A | Luskey Brothers & Co., Inc. |
| | Benson M E | Luskey Brothers & Co., Inc. |
| | Berg Bruce L | Luskey Brothers & Co., Inc. |
| | Chaffee Michael P | Luskey Brothers & Co., Inc. |
| | Clarke Rich | Luskey Brothers & Co., Inc. |
| | Currie Mills Paul C | Luskey Brothers & Co., Inc. |
| | Davies Mario M | Luskey Brothers & Co., Inc. |
| | Eilts Audrey V Mrs | Luskey Brothers & Co., Inc. |
| | Eilts Leonard | Luskey Brothers & Co., Inc. |
| | Froelich Judith E | Luskey Brothers & Co., Inc. |
| | Godolphin Francis R B | Luskey Brothers & Co., Inc. |
| | Gorzeman Leonard | Luskey Brothers & Co., Inc. |
| | Hasson Albert | Luskey Brothers & Co., Inc. |
| | Hauer Gerald E | Luskey Brothers & Co., Inc. |
| | Jackson Richard H | Luskey Brothers & Co., Inc. |
| | Jones W Kenneth | Luskey Brothers & Co., Inc. |
| | Keefe E Jack Jr | Luskey Brothers & Co., Inc. |
| | Kirkw ood Wm | Luskey Brothers & Co., Inc. |
| | Layne Diane | Luskey Brothers & Co., Inc. |
| | Lollar Ray | Luskey Brothers & Co., Inc. |
| | Mahadocon Frederick R Jr | Luskey Brothers & Co., Inc. |
| | Mango Tree Apartments | Luskey Brothers & Co., Inc. |
| | Marshall Ellen | Luskey Brothers & Co., Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | MATHER RICHARD O concrt contr | Luskey Brothers & Co., Inc. |
| | Monroe John L Jr | Luskey Brothers & Co., Inc. |
| | Orschel Geo | Luskey Brothers & Co., Inc. |
| | Polites Gary L | Luskey Brothers & Co., Inc. |
| | Rice Harriett T Mrs | Luskey Brothers & Co., Inc. |
| | Saw yer Carl | Luskey Brothers & Co., Inc. |
| | Sheridan L M | Luskey Brothers & Co., Inc. |
| | Sullivan Danl F Dr | Luskey Brothers & Co., Inc. |
| | Sullivan Robt R | Luskey Brothers & Co., Inc. |
| | Taylor Reid | Luskey Brothers & Co., Inc. |
| | Woodw ord Ken Rev | Luskey Brothers & Co., Inc. |
| | Yates H Paul | Luskey Brothers & Co., Inc. |
| 1970 | Robertson Nell | General Telephone Co., of California |
| | Rooney Frank | General Telephone Co., of California |
| | Saw yer Carl | General Telephone Co., of California |
| | Sibley W H | General Telephone Co., of California |
| | SMlthson Stanley A | General Telephone Co., of California |
| | Thompson Arthur C | General Telephone Co., of California |
| | Thompson H E Mrs | General Telephone Co., of California |
| | Wegner Ew ald A | General Telephone Co., of California |
| | Willlford Paul WM | General Telephone Co., of California |
| | Adler B R | General Telephone Co., of California |
| | Anderton Helen M | General Telephone Co., of California |
| | Bayley John L | General Telephone Co., of California |
| | Bethe Gene J | General Telephone Co., of California |
| | Conrad C S | General Telephone Co., of California |
| | Conw ay M E | General Telephone Co., of California |
| | Crow ell A F Mrs | General Telephone Co., of California |
| | Elilmore Lew is F Mrs | General Telephone Co., of California |
| | Enis Jas P | General Telephone Co., of California |
| | Eris R E Capt | General Telephone Co., of California |
| | Ferry Chas J | General Telephone Co., of California |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1970 | Fonda H J | General Telephone Co., of California |
| | Francis Fred W | General Telephone Co., of California |
| | Gorzeman Leonard | General Telephone Co., of California |
| | Hirou Pierre | General Telephone Co., of California |
| | Jackson Richard H | General Telephone Co., of California |
| | Joel B | General Telephone Co., of California |
| | Keefe Daniel | General Telephone Co., of California |
| | Keefe EJack Jr | General Telephone Co., of California |
| | Klee Wm M VAdm USM Ret | General Telephone Co., of California |
| | Mac Dermid John L | General Telephone Co., of California |
| | Mac Lean Robt B | General Telephone Co., of California |
| | Mango Tree Apts | General Telephone Co., of California |
| | Mattson A Rinar | General Telephone Co., of California |
| | Nae Wtn Edw | General Telephone Co., of California |
| | Nelson Ronald W | General Telephone Co., of California |
| | Pritchard Jas L | General Telephone Co., of California |
| | Ralph H J | General Telephone Co., of California |
| 1966 | Anderton Helen M | Pacific Telephone |
| | Barnes Geo C | Pacific Telephone |
| | Bingham H T | Pacific Telephone |
| | Bixby Lincoln B | Pacific Telephone |
| | Chernoff N E | Pacific Telephone |
| | Conrad C S | Pacific Telephone |
| | Crow ell A F Mrs | Pacific Telephone |
| | Dunlap Robt E | Pacific Telephone |
| | Evans Horace E | Pacific Telephone |
| | Ferry Chas J | Pacific Telephone |
| | Flenner Neil | Pacific Telephone |
| | Fonda H J | Pacific Telephone |
| | Froelich Judith E | Pacific Telephone |
| | Gaiser Floyd E | Pacific Telephone |
| | Jackson Richard H | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1966 | Johnson Clarence E | Pacific Telephone |
| | Krupp Karl C | Pacific Telephone |
| | Lundgren Vernon A | Pacific Telephone |
| | Mac Dermid John L | Pacific Telephone |
| | Mac Lean Robt B | Pacific Telephone |
| | Mango Tree Apts | Pacific Telephone |
| | Mothersill W M Mrs | Pacific Telephone |
| | Peterson Chas F | Pacific Telephone |
| | Poe Philip B | Pacific Telephone |
| | Robertson Nell | Pacific Telephone |
| | SAL & EDDIES DRIVE IN LIQUORS | Pacific Telephone |
| | Salasin Henry E | Pacific Telephone |
| | Saw yer Carl | Pacific Telephone |
| | Smithson Stanley A | Pacific Telephone |
| | Thomson Mark N | Pacific Telephone |
| | Wagner Richard E | Pacific Telephone |
| | Williford Paul M | Pacific Telephone |
| 1965 | Anderton HM | Luskey Brothers |
| | Bingham HT | Luskey Brothers |
| | Froelich JE | Luskey Brothers |
| | Jackson RH | Luskey Brothers |
| | Jennings KH MD | Luskey Brothers |
| | Lundgren VA | Luskey Brothers |
| | Mac Dennid JIL | Luskey Brothers |
| | Mayo EL | Luskey Brothers |
| | Mc Mullen EB | Luskey Brothers |
| | Preston WW | Luskey Brothers |
| | Reisner M | Luskey Brothers |
| | Robertson N | Luskey Brothers |
| | Sachs A | Luskey Brothers |
| | Saw yer C | Luskey Brothers |
| | Walcoft A | Luskey Brothers |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1965 | Wltliford PM | Luskey Brothers |

**2005 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | U 233 ES 71 NEW | Haines Company |

**2010 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | LYVONNE PARKER | Cole Information Services |
| | JENNIFFER PERKINS | Cole Information Services |
| | ELAINE KUSEL | Cole Information Services |
| | DAWNN HAMILTON | Cole Information Services |
| | KATHY CORWIN | Cole Information Services |
| | EARNESTINE BRADLEY | Cole Information Services |
| | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | PAUL PEREZ | Cole Information Services |
| | ARMANDO GUTIERREZ | Cole Information Services |
| | SUSAN MORRIS | Cole Information Services |
| | LEE MOLONEY | Cole Information Services |
| | MARIA ADELA | Cole Information Services |
| | JEROMIE KIRCHOFF | Cole Information Services |
| | JUAN FLORES | Cole Information Services |
| | VERONICA COHEN | Cole Information Services |
| | LAURA BLUMBERG | Cole Information Services |
| | LINDA NAVARRO | Cole Information Services |
| | DAWN KEESER | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | MARTHA FRANCO | Cole Information Services |
| | DORRIS BARRIE | Cole Information Services |
| | THOMAS ZYSKOWSKI | Cole Information Services |
| | CLAUDIA TREJO | Cole Information Services |
| | LIDIA MYERS | Cole Information Services |
| | CHRISTINE MACDUFF | Cole Information Services |
| | TEOFILA VILLEGAS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | KIRK JONES | Cole Information Services |
| | JOE BRUNI | Cole Information Services |
| | SCOTT OSBORNE | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | ROTARU CRYSTAL | Cole Information Services |
| | LORETA MARTINEZ | Cole Information Services |
| | LYVONNE PARKER | Cole Information Services |
| | JENNIFFER PERKINS | Cole Information Services |
| | ELAINE KUSEL | Cole Information Services |
| | DAWNN HAMILTON | Cole Information Services |
| | KATHY CORWIN | Cole Information Services |
| | EARNESTINE BRADLEY | Cole Information Services |
| | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | PAUL PEREZ | Cole Information Services |
| | ARMANDO GUTIERREZ | Cole Information Services |
| | SUSAN MORRIS | Cole Information Services |
| | LEE MOLONEY | Cole Information Services |
| | MARIA ADELA | Cole Information Services |
| | JEROMIE KIRCHOFF | Cole Information Services |
| | JUAN FLORES | Cole Information Services |
| | VERONICA COHEN | Cole Information Services |
| | LAURA BLUMBERG | Cole Information Services |
| | LINDA NAVARRO | Cole Information Services |
| | DAWN KEESER | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | MARTHA FRANCO | Cole Information Services |
| | DORRIS BARRIE | Cole Information Services |
| | THOMAS ZYSKOWSKI | Cole Information Services |
| | CLAUDIA TREJO | Cole Information Services |
| | LIDIA MYERS | Cole Information Services |
| | CHRISTINE MACDUFF | Cole Information Services |
| | TEOFILA VILLEGAS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | KIRK JONES | Cole Information Services |
| | JOE BRUNI | Cole Information Services |
| | SCOTT OSBORNE | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | ROTARU CRYSTAL | Cole Information Services |
| | LORETA MARTINEZ | Cole Information Services |
| 2009 | JIMMY VALENCIA | Cole Information Services |
| | SANTA CLARA APARTMENTS | Cole Information Services |
| | OSCAR VEGA | Cole Information Services |
| | CLADDYS CORDOVA | Cole Information Services |
| | JOHN GARRO | Cole Information Services |
| | ROSIE RUVALCABA | Cole Information Services |
| | CECILIA TORRES | Cole Information Services |
| | CHRISTINA CLARA | Cole Information Services |
| | FRED SPAYNE | Cole Information Services |
| | AARON DANSKER | Cole Information Services |
| | JONNIE CRAWFORD | Cole Information Services |
| | PEDRO CACERES | Cole Information Services |
| | CHRISTINE MACDUFF | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | TARA TRAMMEL | Cole Information Services |
| | RODRIGO DELGADILLO | Cole Information Services |
| | HUGH DYER | Cole Information Services |
| | DOUGLAS ABBOTT | Cole Information Services |
| | MARIA VENZUELA | Cole Information Services |
| | MARIA GRIMALCO | Cole Information Services |
| | WILLIAM BLUMBERG | Cole Information Services |
| | AMY CARISOZA | Cole Information Services |
| | MARIA BECERRIL | Cole Information Services |
| | LIZ VILLA | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | KIM PARKER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | PAUL PEREZ | Cole Information Services |
| | RONALD MATTHEWS | Cole Information Services |
| | DESI LOPEZ | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | SANTA CLARA APARTMENTS | Cole Information Services |
| | OSCAR VEGA | Cole Information Services |
| | CLADDYS CORDOVA | Cole Information Services |
| | JOHN GARRO | Cole Information Services |
| | ROSIE RUVALCABA | Cole Information Services |
| | CECILIA TORRES | Cole Information Services |
| | CHRISTINA CLARA | Cole Information Services |
| | FRED SPAYNE | Cole Information Services |
| | PEDRO CACERES | Cole Information Services |
| | AARON DANSKER | Cole Information Services |
| | JONNIE CRAWFORD | Cole Information Services |
| | CHRISTINE MACDUFF | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | RODRIGO DELGADILLO | Cole Information Services |
| | TARA TRAMMEL | Cole Information Services |
| | HUGH DYER | Cole Information Services |
| | DOUGLAS ABBOTT | Cole Information Services |
| | MARIA VENZUELA | Cole Information Services |
| | AMY CARISOZA | Cole Information Services |
| | MARIA GRIMALCO | Cole Information Services |
| | WILLIAM BLUMBERG | Cole Information Services |
| | MARIA BECERRIL | Cole Information Services |
| | KIM PARKER | Cole Information Services |
| | PAUL PEREZ | Cole Information Services |
| | RONALD MATTHEWS | Cole Information Services |
| | LIZ VILLA | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | DESI LOPEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | ANNIE FISCHER | Cole Information Services |
| | PACIFIC COAST APPLIANCE | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | CLARA SANTA | Cole Information Services |
| | LUCY GREENWALT | Cole Information Services |
| | HOLLY FEAGINS | Cole Information Services |
| | MARIO SERRANO | Cole Information Services |
| | CHARYL KIMM | Cole Information Services |
| | THOMAS CASWELL | Cole Information Services |
| | ERIKA VILLANUEVA | Cole Information Services |
| | JULI GONZALES | Cole Information Services |
| | H COBRAS | Cole Information Services |
| | WILLIAM BOWER | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | JACQUELINE SALVER | Cole Information Services |
| | REYNALDO GARCIA | Cole Information Services |
| | RENALDO MCFARLAND | Cole Information Services |
| | JAVIER SCHETTINI | Cole Information Services |
| | LINDA HONSBERGER | Cole Information Services |
| | LYNNE DAVIS | Cole Information Services |
| | GABRIELA SOTO | Cole Information Services |
| | ELIZABETH HERRERA | Cole Information Services |
| | ROSE LORENZANA | Cole Information Services |
| | EVA BALWINSKI | Cole Information Services |
| | RONALD MATTHEWS | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | KIM PARKER | Cole Information Services |
| | CALIFORNIA GENERAL SERVICES | Cole Information Services |
| | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | RONALD MATTHEWS | Cole Information Services |
| | PACIFIC COAST APPLIANCE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | JIMMY VALENCIA | Cole Information Services |
| | LUCY GREENWALT | Cole Information Services |
| | HOLLY FEAGINS | Cole Information Services |
| | CLARA SANTA | Cole Information Services |
| | MARIO SERRANO | Cole Information Services |
| | CHARYL KIMM | Cole Information Services |
| | ERIKA VILLANUEVA | Cole Information Services |
| | JULI GONZALES | Cole Information Services |
| | THOMAS CASWELL | Cole Information Services |
| | H COBRAS | Cole Information Services |
| | WILLIAM BOWER | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | REYNALDO GARCIA | Cole Information Services |
| | JACQUELINE SALVER | Cole Information Services |
| | RENALDO MCFARLAND | Cole Information Services |
| | JAVIER SCHETTINI | Cole Information Services |
| | LINDA HONSBERGER | Cole Information Services |
| | LYNNE DAVIS | Cole Information Services |
| | GABRIELA SOTO | Cole Information Services |
| | ELIZABETH HERRERA | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | ROSE LORENZANA | Cole Information Services |
| | KIM PARKER | Cole Information Services |
| | ANNIE FISCHER | Cole Information Services |
| | EVA BALWINSKI | Cole Information Services |
| | CALIFORNIA GENERAL SERVICES | Cole Information Services |
| 2002 | 9 SANTACLARAEAPTS | Haines Company |
| | BEANJac 9ue 714 542 02 S | Haines Company |
| | BETANCOU 9 T | Haines Company |
| | Magdalena | Haines Company |
| | BR 08 ERICK Rosa 714 835 6 A | Haines Company |
| | HOLDER Vrivan | Haines Company |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2002 | LENZINI Mnchael R | Haines Company |
| | LUBONSKAliona | Haines Company |
| | PACIFIC COAST | Haines Company |
| | APPLIANCE | Haines Company |
| | RAULAND Yonne 714 295 91 B r SANTA CLARA E APTS | Haines Company |
| | VALENCIA Donna M | Haines Company |
| | WHITE Trma 714 S 3903 3 YOUNG Lauren | Haines Company |
| 1999 | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | PAUL PEREZ | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | DESI LOPEZ | Cole Information Services |
| | OSCAR VEGA | Cole Information Services |
| | CLADDYS CORDOVA | Cole Information Services |
| | ROSIE RUVALCABA | Cole Information Services |
| | CECILIA TORRES | Cole Information Services |
| | CHRISTINA CLARA | Cole Information Services |
| | FRED SPAYNE | Cole Information Services |
| | AARON DANSKER | Cole Information Services |
| | JONNIE CRAWFORD | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | RODRIGO DELGADILLO | Cole Information Services |
| | TARA TRAMMEL | Cole Information Services |
| | HUGH DYER | Cole Information Services |
| | DOUGLAS ABBOTT | Cole Information Services |
| | MARIA VENZUELA | Cole Information Services |
| | MARIA GRIMALCO | Cole Information Services |
| | WILLIAM BLUMBERG | Cole Information Services |
| | MARIA BECERRIL | Cole Information Services |
| | LIZ VILLA | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | KIM PARKER | Cole Information Services |
| | PACIFIC COAST APPLIANCE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| | KEN DIOCSON | Cole Information Services |
| | JIMMY VALENCIA | Cole Information Services |
| | DESI LOPEZ | Cole Information Services |
| | OSCAR VEGA | Cole Information Services |
| | CLADDYS CORDOVA | Cole Information Services |
| | ROSIE RUVALCABA | Cole Information Services |
| | CECILIA TORRES | Cole Information Services |
| | CHRISTINA CLARA | Cole Information Services |
| | FRED SPAYNE | Cole Information Services |
| | AARON DANSKER | Cole Information Services |
| | JONNIE CRAWFORD | Cole Information Services |
| | MARIE HUNTER | Cole Information Services |
| | RODRIGO DELGADILLO | Cole Information Services |
| | TARA TRAMMEL | Cole Information Services |
| | HUGH DYER | Cole Information Services |
| | DOUGLAS ABBOTT | Cole Information Services |
| | MARIA VENZUELA | Cole Information Services |
| | WILLIAM BLUMBERG | Cole Information Services |
| | MARIA GRIMALCO | Cole Information Services |
| | MARIA BECERRIL | Cole Information Services |
| | KIM PARKER | Cole Information Services |
| | PAUL PEREZ | Cole Information Services |
| | LIZ VILLA | Cole Information Services |
| | PACIFIC COAST APPLIANCE | Cole Information Services |
| 1995 | General Co Construction | Pacific Bell |
| | Meng Llang | Pacific Bell |
| | Pacific Coast Appliance | Pacific Bell |
| | Santa Clara East Apartments | Pacific Bell |
| 1994 | ALEXANDER, C E | Cole Information Services |
| | AGUNDEZ, B | Cole Information Services |
| | SANTA CLARA EAST APARTMENTS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | ALEXANDER, C E | Cole Information Services |
| | AGUNDEZ, B | Cole Information Services |
| | SANTA CLARA EAST APARTMENTS | Cole Information Services |
| 1991 | Uchnyama Everett | Pacific Bell |
| | Beavert N | Pacific Bell |
| | Berry Patrick | Pacific Bell |
| | Etter Gyula | Pacific Bell |
| | Hart F M | Pacific Bell |
| | Johnson Mark E | Pacific Bell |
| | Keefer Cindi | Pacific Bell |
| | Keeler Donald | Pacific Bell |
| | Olsen C Jean | Pacific Bell |
| | Santa Clara East Apartments | Pacific Bell |
| | Scouer Jack | Pacific Bell |
| | Wickenburg John | Pacific Bell |
| | Wright SM | Pacific Bell |
| 1986 | Beavert N | Pacific Bell |
| | Bergstrand V Krestan | Pacific Bell |
| | Conroy M K | Pacific Bell |
| | Cook Aubrey G | Pacific Bell |
| | De More Margaret A | Pacific Bell |
| | Hart FM | Pacific Bell |
| | Hepburn Wm E | Pacific Bell |
| | Hillery J | Pacific Bell |
| | Jones AJ | Pacific Bell |
| | Liermann Philip A | Pacific Bell |
| | Mc Millin Jill | Pacific Bell |
| | Puckett J | Pacific Bell |
| | Roeller Jacob | Pacific Bell |
| | Santa Clara East Apartments | Pacific Bell |
| | Scouler Jack | Pacific Bell |
| | Slinkard Richard F | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | Smith M | Pacific Bell |
| | Stirling Dan I J | Pacific Bell |
| 1980 | Roeler Jacob | Pacific Telephone |
| | I Santa Clara East Apartments | Pacific Telephone |
| | Shaw Alan L | Pacific Telephone |
| | Stevenson Thurley B | Pacific Telephone |
| | Taylor Wm B | Pacific Telephone |
| | Tenney Terry | Pacific Telephone |
| | Wright Bill | Pacific Telephone |
| | Ahern John T | Pacific Telephone |
| | Attw ill V K | Pacific Telephone |
| | Beavert N | Pacific Telephone |
| | Brackenbutsch E | Pacific Telephone |
| | Brackens Rena | Pacific Telephone |
| | Conroy M K | Pacific Telephone |
| | Davis Edgar | Pacific Telephone |
| | Dealing S | Pacific Telephone |
| | De Hart Geo | Pacific Telephone |
| | De More Margaret A | Pacific Telephone |
| | Gering Tom | Pacific Telephone |
| | Herrigan R M | Pacific Telephone |
| | Hart F M | Pacific Telephone |
| | HennIngs DK | Pacific Telephone |
| | Hepburn Wnn E | Pacific Telephone |
| | ry J | Pacific Telephone |
| | Jonies A J | Pacific Telephone |
| | Landi Alexander J | Pacific Telephone |
| | Miley N | Pacific Telephone |
| | Pe Mnatozzi Carmnnen | Pacific Telephone |
| | Pernecly Robt M | Pacific Telephone |
| | alt Chas | Pacific Telephone |
| | Robbins M J | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | Allender M L | Luskey Brothers & Co., Inc. |
| | Anrecht Herbert J | Luskey Brothers & Co., Inc. |
| | Attw ill V K | Luskey Brothers & Co., Inc. |
| | Brow n M C Mrs | Luskey Brothers & Co., Inc. |
| | Burt Alcea P | Luskey Brothers & Co., Inc. |
| | Cirre Ron | Luskey Brothers & Co., Inc. |
| | Clark Don | Luskey Brothers & Co., Inc. |
| | Cleveland Jack | Luskey Brothers & Co., Inc. |
| | Condron Lloyd | Luskey Brothers & Co., Inc. |
| | Davey M | Luskey Brothers & Co., Inc. |
| | Forte Michael | Luskey Brothers & Co., Inc. |
| | Fossatti Wm J | Luskey Brothers & Co., Inc. |
| | Greene Saraley | Luskey Brothers & Co., Inc. |
| | Hart F M | Luskey Brothers & Co., Inc. |
| | Hepburn Wm E | Luskey Brothers & Co., Inc. |
| | Hillery J | Luskey Brothers & Co., Inc. |
| | Jones Alma J | Luskey Brothers & Co., Inc. |
| | Largent Chas R | Luskey Brothers & Co., Inc. |
| | Leitner Nat | Luskey Brothers & Co., Inc. |
| | Miley Roderick D | Luskey Brothers & Co., Inc. |
| | Moak Dave | Luskey Brothers & Co., Inc. |
| | Moak Lisa | Luskey Brothers & Co., Inc. |
| | Monnett Donald R | Luskey Brothers & Co., Inc. |
| | Postlethw ait Chas | Luskey Brothers & Co., Inc. |
| | Roeller Jacob | Luskey Brothers & Co., Inc. |
| | Rybnicek C | Luskey Brothers & Co., Inc. |
| | Santa Clara Apartments | Luskey Brothers & Co., Inc. |
| | Shaffer O A | Luskey Brothers & Co., Inc. |
| | Stevenson Thurley B | Luskey Brothers & Co., Inc. |
| | Taylor Wm B | Luskey Brothers & Co., Inc. |
| | Toop E C | Luskey Brothers & Co., Inc. |
| | Weir E T | Luskey Brothers & Co., Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | Westenberg P J | Luskey Brothers & Co., Inc. |
| | Wray Ashley J | Luskey Brothers & Co., Inc. |
| | Yunker Albert A | Luskey Brothers & Co., Inc. |
| 1970 | Benner R C | General Telephone Co., of California |
| 1966 | Benner R C | Pacific Telephone |
| | Black Florence C | Pacific Telephone |
| | Castor Paul M | Pacific Telephone |
| 1965 | Case LJ | Luskey Brothers |

**2020 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2004 | CARRIE COTTER | Cole Information Services |

**2026 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ROBERT BARKER | Cole Information Services |
| | PHYLLIS HARLESS | Cole Information Services |
| | ENRIQUE REYNAFARJE | Cole Information Services |
| | MARIAN AUGUSTINE | Cole Information Services |
| | ALBERTO LOZANO | Cole Information Services |
| | JESSE PEARSON | Cole Information Services |
| | DOUGLAS LORD | Cole Information Services |
| | MOISES MONTOYA | Cole Information Services |
| | JONATHAN RODRIGUEZ | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | ARANDA JOSE | Cole Information Services |
| | JOSEPH SAULLO | Cole Information Services |
| | JOSE SANTAMARIA | Cole Information Services |
| | NANCY TOVAR | Cole Information Services |
| | KATHLEEN LINDSTEDT | Cole Information Services |
| | ROBERT SKINNER | Cole Information Services |
| | PENNY MCNELLIS | Cole Information Services |
| | ROBERT BARKER | Cole Information Services |
| | PHYLLIS HARLESS | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | ENRIQUE REYNAFARJE | Cole Information Services |
| | MARIAN AUGUSTINE | Cole Information Services |
| | ALBERTO LOZANO | Cole Information Services |
| | JESSE PEARSON | Cole Information Services |
| | DOUGLAS LORD | Cole Information Services |
| | MOISES MONTOYA | Cole Information Services |
| | JONATHAN RODRIGUEZ | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | ARANDA JOSE | Cole Information Services |
| | JOSE SANTAMARIA | Cole Information Services |
| | JOSEPH SAULLO | Cole Information Services |
| | NANCY TOVAR | Cole Information Services |
| | KATHLEEN LINDSTEDT | Cole Information Services |
| | ROBERT SKINNER | Cole Information Services |
| | PENNY MCNELLIS | Cole Information Services |
| 2009 | JIM TUCKER | Cole Information Services |
| | MARTIN GOMEZ | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | RONALD CAMBARA | Cole Information Services |
| | JOSE ARANDA | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | AARON PEARSON | Cole Information Services |
| | MOISES MONTOYA | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | JORGE RODRIGUEZ | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | BONNIE BARKER | Cole Information Services |
| | ALEXANDER KEMP | Cole Information Services |
| | TRINIDAD RENTERIA | Cole Information Services |
| | JENNIFER HANSEN | Cole Information Services |
| | JENNIFER LORD | Cole Information Services |
| | PHILIP MOORE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | JEFFREY RUBIN | Cole Information Services |
| | JIM TUCKER | Cole Information Services |
| | MARTIN GOMEZ | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | RONALD CAMBARA | Cole Information Services |
| | JOSE ARANDA | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | MOISES MONTOYA | Cole Information Services |
| | AARON PEARSON | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | JORGE RODRIGUEZ | Cole Information Services |
| | BONNIE BARKER | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | JENNIFER HANSEN | Cole Information Services |
| | JENNIFER LORD | Cole Information Services |
| | PHILIP MOORE | Cole Information Services |
| | ALEXANDER KEMP | Cole Information Services |
| | TRINIDAD RENTERIA | Cole Information Services |
| | JEFFREY RUBIN | Cole Information Services |
| 2004 | EVERYTHING HAS A PLACE | Cole Information Services |
| | MARISELA MORA | Cole Information Services |
| | BONNIE BARKER | Cole Information Services |
| | MAXINE ABBOTT | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | ALISON KWON | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | KELLIE ALLEMAN | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | JEFFREY RUBIN | Cole Information Services |
| | J MARCINKO | Cole Information Services |
| | JIM TUCKER | Cole Information Services |
| | MARILYN PILCHER | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | ALICIA LUNA | Cole Information Services |
| | JOSEPH KOZAK | Cole Information Services |
| | PHILIP MOORE | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | EVERYTHING HAS A PLACE | Cole Information Services |
| | PHILIP MOORE | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | MAXINE ABBOTT | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | ALISON KWON | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | KELLIE ALLEMAN | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | J MARCINKO | Cole Information Services |
| | JIM TUCKER | Cole Information Services |
| | JEFFREY RUBIN | Cole Information Services |
| | MARILYN PILCHER | Cole Information Services |
| | ALICIA LUNA | Cole Information Services |
| | JOSEPH KOZAK | Cole Information Services |
| | MARISELA MORA | Cole Information Services |
| | BONNIE BARKER | Cole Information Services |
| 2002 | APARTMENTS | Haines Company |
| | AUGUSTINE Mrldred 714 953 O 17j + GARDEN Chrstna | Haines Company |
| | EDWARDS Paul | Haines Company |
| | MENGHANI Maonty | Haines Company |
| | MOSSOPJos H | Haines Company |
| | PENSHAW John C 714 54r ll A | Haines Company |
| | SCHROCKJames W 714 43 A 199 C | Haines Company |
| | SETTLE Brenda 714 9721r 49 a WAYMENMarran J | Haines Company |
| 1999 | JENNIFER HANSEN | Cole Information Services |
| | JENNIFER LORD | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | JEFFREY RUBIN | Cole Information Services |
| | JIM TUCKER | Cole Information Services |
| | J MARCINKO | Cole Information Services |
| | MARTIN GOMEZ | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | JOSE ARANDA | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | AARON PEARSON | Cole Information Services |
| | BRENDA MADDOX | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | ALEXANDER KEMP | Cole Information Services |
| | TRINIDAD RENTERIA | Cole Information Services |
| | ALEXANDER KEMP | Cole Information Services |
| | TRINIDAD RENTERIA | Cole Information Services |
| | JEFFREY RUBIN | Cole Information Services |
| | JIM TUCKER | Cole Information Services |
| | J MARCINKO | Cole Information Services |
| | MARTIN GOMEZ | Cole Information Services |
| | ESTRELLA COUCH | Cole Information Services |
| | JOSE ARANDA | Cole Information Services |
| | BRENDA SETTLE | Cole Information Services |
| | BRENDA MADDOX | Cole Information Services |
| | AARON PEARSON | Cole Information Services |
| | MARIAN WAYMEN | Cole Information Services |
| | VICTOR REYNAFARJE | Cole Information Services |
| | JENNIFER HANSEN | Cole Information Services |
| | JENNIFER LORD | Cole Information Services |
| 1995 | Duerr Wm L Rev | Pacific Bell |
| | Edwards Paul | Pacific Bell |
| | Mossop Jos H | Pacific Bell |
| | Openshaw John C | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1995 | Schrock James W | Pacific Bell |
| | Van Buskirk D K | Pacific Bell |
| 1994 | SCHROCK, JAMES W | Cole Information Services |
| | MOSSOP, JOSEPH H | Cole Information Services |
| | DUERR, WILLIAM L | Cole Information Services |
| | MARCINKO, J R | Cole Information Services |
| | SCHROCK, JAMES W | Cole Information Services |
| | MOSSOP, JOSEPH H | Cole Information Services |
| | DUERR, WILLIAM L | Cole Information Services |
| | MARCINKO, J R | Cole Information Services |
| 1991 | Sdhrockd James W | Pacific Bell |
| | Duerr Wm LRev | Pacific Bell |
| | Edw ards Paul | Pacific Bell |
| | Marcinko J R | Pacific Bell |
| | Mossop Jos H | Pacific Bell |
| | Moss Smith Alida @Huntington Beach@ | Pacific Bell |
| | Mossy Vehicle Leasing Inc | Pacific Bell |
| | Openshaw John C | Pacific Bell |
| | Oppenheimer J R | Pacific Bell |
| | Van Buskirk DK | Pacific Bell |
| 1986 | Edw ards Paul | Pacific Bell |
| | Greene Jonathan How e | Pacific Bell |
| | Marcinko J R | Pacific Bell |
| | Mossop Jos H | Pacific Bell |
| | Openshaw John C | Pacific Bell |
| | Oppenheimer J R | Pacific Bell |
| | Robertson Laura & Don | Pacific Bell |
| | Seckendorf Robt D | Pacific Bell |
| | Dunn Jas | Pacific Bell |
| 1980 | Anderson Lyle Sr | Pacific Telephone |
| | Compton Ralph J | Pacific Telephone |
| | Marcinko JR | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1980 | penshew John C | Pacific Telephone |
| | Rich Richard | Pacific Telephone |
| | Rubin Bernard | Pacific Telephone |
| | Ruck Michael | Pacific Telephone |
| | Sobel Milton | Pacific Telephone |
| | Stober C | Pacific Telephone |
| | Van Buskirk D K | Pacific Telephone |
| | Wright T W | Pacific Telephone |
| 1975 | Anderson Lyle Sr | Luskey Brothers & Co., Inc. |
| | Barker B J | Luskey Brothers & Co., Inc. |
| | Buchanan J Herb | Luskey Brothers & Co., Inc. |
| | Curle G | Luskey Brothers & Co., Inc. |
| | Mossop Jos H | Luskey Brothers & Co., Inc. |
| | Openshaw John C | Luskey Brothers & Co., Inc. |
| | Rubin Bernard | Luskey Brothers & Co., Inc. |
| | Ruck Michael | Luskey Brothers & Co., Inc. |
| | Smith Victor H | Luskey Brothers & Co., Inc. |
| | Sobel Milton | Luskey Brothers & Co., Inc. |
| | Wright T W | Luskey Brothers & Co., Inc. |
| | Yates J | Luskey Brothers & Co., Inc. |
| 1970 | Amirault Al | General Telephone Co., of California |
| | Anderson Lyie Sr | General Telephone Co., of California |
| | Beesley B T | General Telephone Co., of California |
| | Branyen Jean | General Telephone Co., of California |
| | Branyen John Paul | General Telephone Co., of California |
| | Chamberlin Jane | General Telephone Co., of California |
| | Daw son John H | General Telephone Co., of California |
| | Grillias Dimitra | General Telephone Co., of California |
| | HAYDEN See also HADDEN HEYDEN | General Telephone Co., of California |
| | n Donald L | General Telephone Co., of California |
| | Page N C | General Telephone Co., of California |
| | Parsons Gertrude | General Telephone Co., of California |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1970 | Parsons Ralph A Col | General Telephone Co., of California |
| | Porter Paul V Mrs | General Telephone Co., of California |
| | Stauffer Robt F | General Telephone Co., of California |
| | Ware W J | General Telephone Co., of California |
| | Wright T W | General Telephone Co., of California |
| 1966 | Beesley B T | Pacific Telephone |
| | Darmstadt Edw H | Pacific Telephone |
| | Demmond Bee | Pacific Telephone |
| | Gambert D G | Pacific Telephone |
| | Ingram Moody | Pacific Telephone |
| | Ingram Roy E | Pacific Telephone |
| | Kuehne Geli | Pacific Telephone |
| | Mc Daniel John W | Pacific Telephone |
| | Page N C | Pacific Telephone |
| | Poes Irene A | Pacific Telephone |
| | Poes Leonard | Pacific Telephone |
| | Quiggle How ard C | Pacific Telephone |
| | Roche Freda F | Pacific Telephone |
| | Sanders Jas E | Pacific Telephone |
| | Sobel Milton | Pacific Telephone |
| | Stapp K F | Pacific Telephone |
| | Stauffer Robt F | Pacific Telephone |
| | Utsler R E | Pacific Telephone |
| | Vollmar Phyllis S | Pacific Telephone |
| | Weinrich Geraldine | Pacific Telephone |
| | Wright Priscilla | Pacific Telephone |
| | Wright T W | Pacific Telephone |
| 1965 | Beesley BT | Luskey Brothers |
| | DAngelo SE | Luskey Brothers |
| | Faccou AL | Luskey Brothers |
| | Hickman PB | Luskey Brothers |
| | Lloyd HE | Luskey Brothers |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1965 | Milligan WM | Luskey Brothers |
| | Noeker G E | Luskey Brothers |
| | Phipers T | Luskey Brothers |
| | Poes L | Luskey Brothers |
| | Quiggle HC | Luskey Brothers |
| | Slusser GM | Luskey Brothers |
| | Utsler RE | Luskey Brothers |
| | Venezia G | Luskey Brothers |
| | Vollmar PS | Luskey Brothers |
| | Wright TW | Luskey Brothers |

**2030 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | DON EDWARDS | Cole Information Services |
| | PATRICIA BRIBIESCA | Cole Information Services |
| | BRANDON SHELBY | Cole Information Services |
| | BOB VAVRA | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| | JOSEPH LOAIZA | Cole Information Services |
| | ADAM MILLER | Cole Information Services |
| | ERIC STEPHENS | Cole Information Services |
| | LEONCIO VIVAR | Cole Information Services |
| | VICTORIA RUTLEDGE | Cole Information Services |
| | DANILO BAQUING | Cole Information Services |
| | WILLIAM BESSENT | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |
| | DELIO OSPINA | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | YOLANDA CARDENAS | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | IGNACIO MACIAS | Cole Information Services |
| | MARILYN ROBBINS | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | ALEJANDRO VEGA | Cole Information Services |
| | SUSAN DELANEY | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | SAMUEL HAGERMAN | Cole Information Services |
| | JOSEPH TCHORZYK | Cole Information Services |
| | R TISCARENO | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | BARRY WALSHE | Cole Information Services |
| | DAVID BENDER | Cole Information Services |
| | YURI CASATE | Cole Information Services |
| | WILLIAM CAUFIELD | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | CHRISTIAN HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | FELIPE VALENCIA | Cole Information Services |
| | DAVID YAKINIAN | Cole Information Services |
| | ARTHUR RICHMAN | Cole Information Services |
| | ROBIN MORGAN | Cole Information Services |
| | DON EDWARDS | Cole Information Services |
| | PATRICIA BRIBIESCA | Cole Information Services |
| | JOSEPH LOAIZA | Cole Information Services |
| | ROBIN MORGAN | Cole Information Services |
| | BRANDON SHELBY | Cole Information Services |
| | BOB VAVRA | Cole Information Services |
| | ADAM MILLER | Cole Information Services |
| | VICTORIA RUTLEDGE | Cole Information Services |
| | ERIC STEPHENS | Cole Information Services |
| | LEONCIO VIVAR | Cole Information Services |
| | DANILO BAQUING | Cole Information Services |
| | WILLIAM BESSENT | Cole Information Services |
| | YOLANDA CARDENAS | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | CAROL LOUGH | Cole Information Services |
| | IGNACIO MACIAS | Cole Information Services |
| | DELIO OSPINA | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | MARILYN ROBBINS | Cole Information Services |
| | SUSAN DELANEY | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | SAMUEL HAGERMAN | Cole Information Services |
| | JOSEPH TCHORZYK | Cole Information Services |
| | R TISCARENO | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | BARRY WALSHE | Cole Information Services |
| | DAVID BENDER | Cole Information Services |
| | YURI CASATE | Cole Information Services |
| | WILLIAM CAUFIELD | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | CHRISTIAN HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | ARTHUR RICHMAN | Cole Information Services |
| | FELIPE VALENCIA | Cole Information Services |
| | DAVID YAKINIAN | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| 2009 | EFRAIN FAUSTINO | Cole Information Services |
| | EVERYTHING HAS A PLACE | Cole Information Services |
| | LUIS HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | CATALINA NIETO | Cole Information Services |
| | EFRAIN AVELINO | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | JUAN TORRES | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | BRANDON SHELBY | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | MARCELINO RUIZ | Cole Information Services |
| | JESUS GOMEZ | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |
| | ERIK ROJAS | Cole Information Services |
| | PATRICIA SANTOYO | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | YOLANDA CELAYA | Cole Information Services |
| | LUCANO CORTEZ | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | JEANNE BENDER | Cole Information Services |
| | LUCANO MARIACA | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | MARK DELANEY | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | PATRICIA ITO | Cole Information Services |
| | DANIEL TCHORZYK | Cole Information Services |
| | ANN EDWARDS | Cole Information Services |
| | LEE WALSHE | Cole Information Services |
| | ROSA PANTALEON | Cole Information Services |
| | WILLIAM CAUFIELD | Cole Information Services |
| | EFRAIN FAUSTINO | Cole Information Services |
| | EVERYTHING HAS A PLACE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | LUIS HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | CATALINA NIETO | Cole Information Services |
| | EFRAIN AVELINO | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | JUAN TORRES | Cole Information Services |
| | BRANDON SHELBY | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | PATRICIA SANTOYO | Cole Information Services |
| | ERIK ROJAS | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | MARCELINO RUIZ | Cole Information Services |
| | JESUS GOMEZ | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | LUCANO CORTEZ | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | LUCANO MARIACA | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | YOLANDA CELAYA | Cole Information Services |
| | JEANNE BENDER | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | MARK DELANEY | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | PATRICIA ITO | Cole Information Services |
| | DANIEL TCHORZYK | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | ANN EDWARDS | Cole Information Services |
| | LEE WALSHE | Cole Information Services |
| | ROSA PANTALEON | Cole Information Services |
| | WILLIAM CAUFIELD | Cole Information Services |
| 2004 | ORANGE COUNTY TOOLS & CANOPY | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | TANYA ARDREY | Cole Information Services |
| | DIANE BARRETT | Cole Information Services |
| | DEBORAH COOPER | Cole Information Services |
| | RAMON LEYVA | Cole Information Services |
| | WILLIAM STEINER | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | NOBLE HURST | Cole Information Services |
| | THOMAS THOMPSON | Cole Information Services |
| | HUGO DOTOR | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | MARY BERNARD | Cole Information Services |
| | CARLOS FLORES | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | TERESA HERNANDEZ | Cole Information Services |
| | TIMOTHY DECULIT | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | FRANK WARD | Cole Information Services |
| | ALEX CRUZ | Cole Information Services |
| | JEANNE BENDER | Cole Information Services |
| | SYLVIA MARTIN | Cole Information Services |
| | SAMUEL HAGERMAN | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | RODOLFO DOMINGUEZ | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | SANTIAGO TAUSS | Cole Information Services |
| | BARRY WALSHE | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | GEORGE KYRIAKIDIS | Cole Information Services |
| | ANN EDWARDS | Cole Information Services |
| | DEBRA MCPHERSON | Cole Information Services |
| | LARRY WARD | Cole Information Services |
| | AMANDO PEREZ | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | JASON JOHN | Cole Information Services |
| | ORANGE COUNTY TOOLS & CANOPY | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | TANYA ARDREY | Cole Information Services |
| | RAMON LEYVA | Cole Information Services |
| | DIANE BARRETT | Cole Information Services |
| | DEBORAH COOPER | Cole Information Services |
| | WILLIAM STEINER | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | NOBLE HURST | Cole Information Services |
| | THOMAS THOMPSON | Cole Information Services |
| | HUGO DOTOR | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | MARY BERNARD | Cole Information Services |
| | CARLOS FLORES | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | TERESA HERNANDEZ | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | TIMOTHY DECULIT | Cole Information Services |
| | FRANK WARD | Cole Information Services |
| | ALEX CRUZ | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | JEANNE BENDER | Cole Information Services |
| | SYLVIA MARTIN | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | RODOLFO DOMINGUEZ | Cole Information Services |
| | SANTIAGO TAUSS | Cole Information Services |
| | BARRY WALSHE | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | SAMUEL HAGERMAN | Cole Information Services |
| | GEORGE KYRIAKIDIS | Cole Information Services |
| | ANN EDWARDS | Cole Information Services |
| | DEBRA MCPHERSON | Cole Information Services |
| | LARRY WARD | Cole Information Services |
| | AMANDO PEREZ | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | JASON JOHN | Cole Information Services |
| 2002 | CASTHWYPTRL | Haines Company |
| | SANTA ANA OFC | Haines Company |
| | MATLACKJo An | Haines Company |
| | MCLAUGHLIN Henry T | Haines Company |
| 1999 | LUCANO CORTEZ | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | JEANNE BENDER | Cole Information Services |
| | SYLVIA MARTIN | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |
| | MARK DELANEY | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | L MALLIS | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | PATRICIA ITO | Cole Information Services |
| | DANIEL TCHORZYK | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | ANN EDWARDS | Cole Information Services |
| | LEE WALSHE | Cole Information Services |
| | ROSA PANTALEON | Cole Information Services |
| | EFRAIN FAUSTINO | Cole Information Services |
| | LUIS HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | CATALINA NIETO | Cole Information Services |
| | EFRAIN AVELINO | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | BRANDON SHELBY | Cole Information Services |
| | JUAN TORRES | Cole Information Services |
| | ANDRE KHALIFE | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| | RHONDA HAIN | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | MARCELINO RUIZ | Cole Information Services |
| | JESUS GOMEZ | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |
| | MARY ROBERTS | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | SYLVIA MARTIN | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | YOLANDA CELAYA | Cole Information Services |
| | LUCANO CORTEZ | Cole Information Services |
| | CHARLEEN NEWTON | Cole Information Services |
| | JEANNE BENDER | Cole Information Services |
| | L MALLIS | Cole Information Services |
| | GAYLE STEWART | Cole Information Services |
| | JANET TURNBOUGH | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | MARK DELANEY | Cole Information Services |
| | CHRIS FURNESS | Cole Information Services |
| | JOSE MILLAN | Cole Information Services |
| | PATRICIA ITO | Cole Information Services |
| | DANIEL TCHORZYK | Cole Information Services |
| | ANN EDWARDS | Cole Information Services |
| | LEE WALSHE | Cole Information Services |
| | ROSA PANTALEON | Cole Information Services |
| | EFRAIN FAUSTINO | Cole Information Services |
| | LUIS HERNANDEZ | Cole Information Services |
| | ALICIA ORDAZ | Cole Information Services |
| | CATALINA NIETO | Cole Information Services |
| | EFRAIN AVELINO | Cole Information Services |
| | ROGER HICKEY | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | BRANDON SHELBY | Cole Information Services |
| | JUAN TORRES | Cole Information Services |
| | GEORGE KYRLAKIDIS | Cole Information Services |
| | RAMON CASATE | Cole Information Services |
| | RHONDA HAIN | Cole Information Services |
| | ROBERT VAVRA | Cole Information Services |
| | MARCELINO RUIZ | Cole Information Services |
| | JESUS GOMEZ | Cole Information Services |
| | CAROL LOUGH | Cole Information Services |
| | SCOTT PILCHER | Cole Information Services |
| | ENRIQUE FELIX | Cole Information Services |
| | MARY ROBERTS | Cole Information Services |
| | ALEJANDRO VEGA | Cole Information Services |
| | NANCY HUGHES | Cole Information Services |
| | YOLANDA CELAYA | Cole Information Services |
| 1995 | Burstein Frances E | Pacific Bell |
| | Capps Bill | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1995 | Coleman M F | Pacific Bell |
| | Copeland Evelyn L | Pacific Bell |
| | De Deo Dan | Pacific Bell |
| | Edw ards Paul | Pacific Bell |
| | Hernandez Francisco | Pacific Bell |
| | Hurst Noble | Pacific Bell |
| | Malis L Margaret | Pacific Bell |
| | Martin Sylvia Ann | Pacific Bell |
| | New ton CD | Pacific Bell |
| | Stew art Gayle | Pacific Bell |
| | Walshe Lee & Chris | Pacific Bell |
| | Ward Larry | Pacific Bell |
| | Wopschall Gale L | Pacific Bell |
| 1994 | STEWART, GAYLE | Cole Information Services |
| | DREBLOW, L | Cole Information Services |
| | COLEMAN, M F | Cole Information Services |
| | MALLIS, L M | Cole Information Services |
| | COPELAND, EVELYN L | Cole Information Services |
| | WARD, LARRY | Cole Information Services |
| | DEDEO, DAN | Cole Information Services |
| | COTTAGE, GEORGE P | Cole Information Services |
| | NEWTON, C D | Cole Information Services |
| | HURST, NOBLE | Cole Information Services |
| | MARTIN, SYLVIA A | Cole Information Services |
| | MRAD, MICHELE | Cole Information Services |
| | HERNANDES, F | Cole Information Services |
| | WOPSCHALL, GALE L | Cole Information Services |
| | STEWART, GAYLE | Cole Information Services |
| | DREBLOW, L | Cole Information Services |
| | COLEMAN, M F | Cole Information Services |
| | MALLIS, L M | Cole Information Services |
| | COPELAND, EVELYN L | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | WARD, LARRY | Cole Information Services |
| | DEDEO, DAN | Cole Information Services |
| | COTTAGE, GEORGE P | Cole Information Services |
| | NEWTON, C D | Cole Information Services |
| | MARTIN, SYLVIA A | Cole Information Services |
| | HURST, NOBLE | Cole Information Services |
| | MRAD, MICHELE | Cole Information Services |
| | HERNANDES, F | Cole Information Services |
| | WOPSCHALL, GALE L | Cole Information Services |
| 1991 | Burstein Maxw ell H & Frances | Pacific Bell |
| | Capps Bill | Pacific Bell |
| | Capps C | Pacific Bell |
| | Coleman M F | Pacific Bell |
| | Coleman M J | Pacific Bell |
| | Copeland Evelyn L | Pacific Bell |
| | De Deo Dan | Pacific Bell |
| | Doughty Esther | Pacific Bell |
| | Dreblow L | Pacific Bell |
| | Edw ards Paul | Pacific Bell |
| | Harrell ENSr | Pacific Bell |
| | Harrell Erin F | Pacific Bell |
| | Hurst Noble | Pacific Bell |
| | Just F | Pacific Bell |
| | Kenyon E M | Pacific Bell |
| | Ketelsen Emil | Pacific Bell |
| | Mallis L Margaret | Pacific Bell |
| | Mc Guire R A | Pacific Bell |
| | Ostlund N M | Pacific Bell |
| | Steele Grace E | Pacific Bell |
| | Stew art Gayle | Pacific Bell |
| | Stlgertsdohn W | Pacific Bell |
| | Ward Larry | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1991 | Wopschall Gale L | Pacific Bell |
| | Martin Sylvia @Anaheim@ | Pacific Bell |
| 1986 | Burstein Maxw ell H & Frances | Pacific Bell |
| | Capps Bill | Pacific Bell |
| | Cavn Ruth E | Pacific Bell |
| | Church V Lee | Pacific Bell |
| | Coleman M F | Pacific Bell |
| | Copeland Evelyn L | Pacific Bell |
| | De Deo Dan | Pacific Bell |
| | De Meneces Frank | Pacific Bell |
| | Doughty Esther | Pacific Bell |
| | Dreblow L | Pacific Bell |
| | Edw ards Paul | Pacific Bell |
| | Hardel lE N Sr | Pacific Bell |
| | Hurst Noble | Pacific Bell |
| | Just F | Pacific Bell |
| | Kenyan E M | Pacific Bell |
| | Ketelsen Emil | Pacific Bell |
| | Mc Guire R A | Pacific Bell |
| | New ton CD | Pacific Bell |
| | Ostlund N M | Pacific Bell |
| | Quick Hamilton | Pacific Bell |
| | Steele Grace E | Pacific Bell |
| | Stew art Gayle | Pacific Bell |
| | Stigerts John W | Pacific Bell |
| | Sw eet LD | Pacific Bell |
| 1980 | Anderson Lyle MI Jr | Pacific Telephone |
| | Bottroff Robt | Pacific Telephone |
| | Bradley R M Lt Col Ret | Pacific Telephone |
| | Capps Bill | Pacific Telephone |
| | Cavin Ruth E | Pacific Telephone |
| | Coleman M F | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1980 | Copeland E L | Pacific Telephone |
| | De Deo Dan | Pacific Telephone |
| | De Meneces Frank | Pacific Telephone |
| | I Dolphin E K | Pacific Telephone |
| | Dolphin Excavating | Pacific Telephone |
| | Dreblow L | Pacific Telephone |
| | Ellis Bruce A | Pacific Telephone |
| | Ellis Bryant | Pacific Telephone |
| | Ellis Bud R S Crosscreek @Irvine@ | Pacific Telephone |
| | Geiger Agnes | Pacific Telephone |
| | Gillenberg Fred H | Pacific Telephone |
| | Glicksman Clifford | Pacific Telephone |
| | Harrell Anne | Pacific Telephone |
| | Harrell E N Sr | Pacific Telephone |
| | a S rael Leonard MD | Pacific Telephone |
| | Just F | Pacific Telephone |
| | Kenyon E M | Pacific Telephone |
| | Ketelsen Emi | Pacific Telephone |
| | New ton C D | Pacific Telephone |
| | Ostlund N M | Pacific Telephone |
| | Quick Hamilton | Pacific Telephone |
| | Stew art Gayle | Pacific Telephone |
| | Stigerts John W | Pacific Telephone |
| | Weo D | Pacific Telephone |
| | Burstein Maxw ell H & Frances | Pacific Telephone |
| | Edw ards Paul | Pacific Telephone |
| | Magnusson Eloise C | Pacific Telephone |
| | I | Pacific Telephone |
| 1975 | Allison S | Luskey Brothers & Co., Inc. |
| | Barrett Edw P | Luskey Brothers & Co., Inc. |
| | Bosko Jacob | Luskey Brothers & Co., Inc. |
| | Burns Elsie L | Luskey Brothers & Co., Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | Burns Wm | Luskey Brothers & Co., Inc. |
| | Burstein Frances | Luskey Brothers & Co., Inc. |
| | Burstein Maxw ell H | Luskey Brothers & Co., Inc. |
| | Capps Bill | Luskey Brothers & Co., Inc. |
| | Cavin Ruth E | Luskey Brothers & Co., Inc. |
| | Church Clarence B | Luskey Brothers & Co., Inc. |
| | Coleman M F | Luskey Brothers & Co., Inc. |
| | Crow l Bruce E | Luskey Brothers & Co., Inc. |
| | Cullen Richard | Luskey Brothers & Co., Inc. |
| | De Deo Dan | Luskey Brothers & Co., Inc. |
| | DeMeneces Frank | Luskey Brothers & Co., Inc. |
| | Drake Stanley C | Luskey Brothers & Co., Inc. |
| | Dreblow L | Luskey Brothers & Co., Inc. |
| | Edw ards Paul | Luskey Brothers & Co., Inc. |
| | Ellis Bruce A | Luskey Brothers & Co., Inc. |
| | Gillenberg Fred H | Luskey Brothers & Co., Inc. |
| | Harrell Anne | Luskey Brothers & Co., Inc. |
| | Harrell E N Sr | Luskey Brothers & Co., Inc. |
| | Hurst Noble | Luskey Brothers & Co., Inc. |
| | Just F | Luskey Brothers & Co., Inc. |
| | Kenyon E M | Luskey Brothers & Co., Inc. |
| | Ketelsen Emil | Luskey Brothers & Co., Inc. |
| | Leiter Bert H | Luskey Brothers & Co., Inc. |
| | New ton C D | Luskey Brothers & Co., Inc. |
| | Ostlund N M | Luskey Brothers & Co., Inc. |
| | Stew art Gayle | Luskey Brothers & Co., Inc. |
| | Stigerts John W | Luskey Brothers & Co., Inc. |
| | Ventre Eugene W | Luskey Brothers & Co., Inc. |
| | Walker A K | Luskey Brothers & Co., Inc. |
| 1970 | Baumnhoefener John | General Telephone Co., of California |
| | Bede llt Herbert G | General Telephone Co., of California |
| | Cullen Richard | General Telephone Co., of California |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1970 | Drew itz Carol B Mrs | General Telephone Co., of California |
| | Drew itz Lynne | General Telephone Co., of California |
| | Edw ards Paul | General Telephone Co., of California |
| | Evans El A | General Telephone Co., of California |
| | Givens Chas S Mrs | General Telephone Co., of California |
| | Hatcher Corinne | General Telephone Co., of California |
| | Hatcher Donald | General Telephone Co., of California |
| | Hiers Jas E | General Telephone Co., of California |
| | Hiers Jim | General Telephone Co., of California |
| | Hull Larry C | General Telephone Co., of California |
| | Hull Martha D | General Telephone Co., of California |
| | Israel Leonard MD | General Telephone Co., of California |
| | Kinikin Chester W | General Telephone Co., of California |
| | Laughlin Gary M | General Telephone Co., of California |
| | May Geraldine H | General Telephone Co., of California |
| | New Doyle A Mal | General Telephone Co., of California |
| | Peterson Max G | General Telephone Co., of California |
| | Peterson Paul N | General Telephone Co., of California |
| | Reynolds A | General Telephone Co., of California |
| | Rubin Bernard | General Telephone Co., of California |
| | Van Dyke Donald L | General Telephone Co., of California |
| | Walthers Walter E | General Telephone Co., of California |
| 1966 | Bailey Louis E | Pacific Telephone |
| | Berman Marvin | Pacific Telephone |
| | Bolton Wm C | Pacific Telephone |
| | Boynton Edgar G | Pacific Telephone |
| | Burge Richard W | Pacific Telephone |
| | Cohen Roberta | Pacific Telephone |
| | Cole Walter Jr | Pacific Telephone |
| | Cullen Richard | Pacific Telephone |
| | Dupsloff Carl D | Pacific Telephone |
| | Edw ards Paul | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1966 | Ferguson W J | Pacific Telephone |
| | Gaddis Dw ight L | Pacific Telephone |
| | Gliksohn S V | Pacific Telephone |
| | Goodman Leonard F | Pacific Telephone |
| | Hudson Theo C | Pacific Telephone |
| | Lincoln Winslow S | Pacific Telephone |
| | Martin Frank J | Pacific Telephone |
| | Montani John H | Pacific Telephone |
| | Peot Clarence | Pacific Telephone |
| | Primm Wm L | Pacific Telephone |
| | Rashti Gloria | Pacific Telephone |
| | Roach Emily A | Pacific Telephone |
| | Rubin Bernard | Pacific Telephone |
| | Saar Dorothy | Pacific Telephone |
| | Safier Shirley | Pacific Telephone |
| | Skelton Danl B | Pacific Telephone |
| | Tilton Warren J | Pacific Telephone |
| | Vallerga Jack P | Pacific Telephone |
| | Vallerga Madelon | Pacific Telephone |
| 1965 | Bailey LE | Luskey Brothers |
| | Berman NM | Luskey Brothers |
| | Courtney T Jr | Luskey Brothers |
| | Crockett LU | Luskey Brothers |
| | Ekin R | Luskey Brothers |
| | Fischer HF Jr | Luskey Brothers |
| | Gliksohn SV | Luskey Brothers |
| | Langdon WR | Luskey Brothers |
| | Lidsky S | Luskey Brothers |
| | Martin FJ | Luskey Brothers |
| | Mc Broom RB | Luskey Brothers |
| | Meader HO | Luskey Brothers |
| | Primm WL | Luskey Brothers |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1965 | Reece AC | Luskey Brothers |
| | Rubin B | Luskey Brothers |
| | Schlueter M | Luskey Brothers |
| | Sobel M | Luskey Brothers |
| | Strier MP Dr | Luskey Brothers |
| | Taylor GT | Luskey Brothers |
| | Tradewell TP | Luskey Brothers |

**2031 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | STATE OF CALIFORNIA | Cole Information Services |
| | STATE OF CALIFORNIA | Cole Information Services |
| 2009 | CALIFORNIA HIGHWAY PATROL | Cole Information Services |
| | CALIFORNIA HIGHWAY PATROL | Cole Information Services |
| 2004 | CALIFORNIA HIGHWAY PATROL | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| | CALIFORNIA HIGHWAY PATROL | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 1999 | CALIFORNIA STATE OF HIGHWAY PATROL | Cole Information Services |
| | CALIFORNIA STATE OF HIGHWAY PATROL | Cole Information Services |
| 1994 | HIGHWAY PATROL | Cole Information Services |
| | HIGHWAY PATROL | Cole Information Services |
| 1980 | Santa Ana Ofc | Pacific Telephone |
| | Blodgett Yolanda | Pacific Telephone |
| 1975 | Santa Ana Ofc | Luskey Brothers & Co., Inc. |

**2034 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | KEVIN WILEY | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | CASSANDRA HAGGINS | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | MARIA AGUILAR | Cole Information Services |
| | SHARON VELCI | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | JEFFREY PRICE | Cole Information Services |
| | DAVID MONJE | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | JAIME MONGE | Cole Information Services |
| | WILLIAM WITTMANN | Cole Information Services |
| | DONALD WALLACE | Cole Information Services |
| | ANTONIO SUAREZ | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | KENNETH WASSNER | Cole Information Services |
| | YESENIA OCAMPO | Cole Information Services |
| | ROMAN FALCON | Cole Information Services |
| | JAMES GRANT | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | RICHARD WOOD | Cole Information Services |
| | KEVIN WILEY | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | CASSANDRA HAGGINS | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | MARIA AGUILAR | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | JEFFREY PRICE | Cole Information Services |
| | DAVID MONJE | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | JAIME MONGE | Cole Information Services |
| | WILLIAM WITTMANN | Cole Information Services |
| | DONALD WALLACE | Cole Information Services |
| | ANTONIO SUAREZ | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | KENNETH WASSNER | Cole Information Services |
| | YESENIA OCAMPO | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2014 | ROMAN FALCON | Cole Information Services |
| | RICHARD WOOD | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | JAMES GRANT | Cole Information Services |
| 2009 | EDUWIGES HARO | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | KEVIN WILEY | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | FRANCISCO HERNANDEZ | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | SANTOS ALDANA | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | JAIME MONGE | Cole Information Services |
| | G COWAN | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | GAIL PRICE | Cole Information Services |
| | KEVIN THOMPSON | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | SHIRLEY SAFIER | Cole Information Services |
| | RYAN MOTTERAM | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | RICHARD WOOD | Cole Information Services |
| | SUSANNE HANSEN | Cole Information Services |
| | EDUWIGES HARO | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | KEVIN WILEY | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | FRANCISCO HERNANDEZ | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | SANTOS ALDANA | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | JAIME MONGE | Cole Information Services |
| | G COWAN | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | GAIL PRICE | Cole Information Services |
| | KEVIN THOMPSON | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | SHIRLEY SAFIER | Cole Information Services |
| | RYAN MOTTERAM | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | RICHARD WOOD | Cole Information Services |
| | SUSANNE HANSEN | Cole Information Services |
| 2004 | BRADLEY TIMME | Cole Information Services |
| | R AZSHWEE | Cole Information Services |
| | BARBARA SHOEMAKER | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | LORRAINE SZYMANSKI | Cole Information Services |
| | LEE YOUNG | Cole Information Services |
| | LUIS HERNANDEZ | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | G COWAN | Cole Information Services |
| | GAIL PRICE | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | STELLA BRICK | Cole Information Services |
| | SHIRLEY SAFIER | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | EDWIN HANSEN | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | R AZSHWEE | Cole Information Services |
| | BARBARA SHOEMAKER | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | LORRAINE SZYMANSKI | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | LEE YOUNG | Cole Information Services |
| | LUIS HERNANDEZ | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | G COWAN | Cole Information Services |
| | GAIL PRICE | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | STELLA BRICK | Cole Information Services |
| | SHIRLEY SAFIER | Cole Information Services |
| | MAUREEN BAYLEY | Cole Information Services |
| | EDWIN HANSEN | Cole Information Services |
| 1999 | RICHARD WOOD | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | KEVIN THOMPSON | Cole Information Services |
| | GAIL PRICE | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | G COWAN | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | SANTOS ALDANA | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | FRANCISCO HERNANDEZ | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | KEVIN WILEY | Cole Information Services |
| | SUSANNE HANSEN | Cole Information Services |
| | EDUWIGES HARO | Cole Information Services |
| | BEVERLY HANSEN | Cole Information Services |
| | RICHARD WOOD | Cole Information Services |
| | BRADLEY TIMME | Cole Information Services |
| | JUANITA KING | Cole Information Services |
| | MICHAEL SHOEMAKER | Cole Information Services |
| | KEVIN THOMPSON | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | GAIL PRICE | Cole Information Services |
| | RUTH MARCOLY | Cole Information Services |
| | G COWAN | Cole Information Services |
| | BRUCE MCLAUGHLIN | Cole Information Services |
| | SANTOS ALDANA | Cole Information Services |
| | SHARON VELCI | Cole Information Services |
| | FRANCISCO HERNANDEZ | Cole Information Services |
| | THOM GSELL | Cole Information Services |
| | KEVIN WILEY | Cole Information Services |
| | SUSANNE HANSEN | Cole Information Services |
| | EDUWIGES HARO | Cole Information Services |
| | BEVERLY HANSEN | Cole Information Services |
| 1995 | Aceves Jose T | Pacific Bell |
| | Hernandez Luis | Pacific Bell |
| | Mc Laughlin Henry T | Pacific Bell |
| | Radford Helen M | Pacific Bell |
| | Roth Joe | Pacific Bell |
| | Velci Eugene | Pacific Bell |
| 1994 | ACEVES, JOSE T | Cole Information Services |
| | ROTH, JOE | Cole Information Services |
| | STEAMER, PAUL A | Cole Information Services |
| | RADFORD, HELEN M | Cole Information Services |
| | ACEVES, JOSE T | Cole Information Services |
| | ROTH, JOE | Cole Information Services |
| | STEAMER, PAUL A | Cole Information Services |
| | RADFORD, HELEN M | Cole Information Services |
| 1991 | Radford Helen M | Pacific Bell |
| | Radford J | Pacific Bell |
| | Radford John Jr | Pacific Bell |
| | Roth Joe | Pacific Bell |
| | Schaefer Scott | Pacific Bell |
| | Velci Eugene | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | Gruener Christopher | Pacific Bell |
| | Blodgett Yolanda | Pacific Bell |
| | Body A R | Pacific Bell |
| | Bruno Jean | Pacific Bell |
| | Jacobson R S | Pacific Bell |
| | James Denver C | Pacific Bell |
| | Lavosi B J | Pacific Bell |
| | Lemke Gary & Linda | Pacific Bell |
| | Mc Laughlin Henry T | Pacific Bell |
| | Morrson John E | Pacific Bell |
| | Pcnno Chas | Pacific Bell |
| | Radford Helen M | Pacific Bell |
| | Steamer PM | Pacific Bell |
| | Steamer Paul A | Pacific Bell |
| 1980 | Perino Chas | Pacific Telephone |
| | Reno Sue | Pacific Telephone |
| | Reno Tom | Pacific Telephone |
| | er L | Pacific Telephone |
| | Ruggaber H M | Pacific Telephone |
| | Sa ler S M | Pacific Telephone |
| | I Steamer P M | Pacific Telephone |
| | Steamer Paul A | Pacific Telephone |
| | Velci Eugene | Pacific Telephone |
| | Warren Dixon S | Pacific Telephone |
| | Body A R | Pacific Telephone |
| | Brennan Lorraine | Pacific Telephone |
| | Brennan M | Pacific Telephone |
| | Brennan MC | Pacific Telephone |
| | Jacobson R S | Pacific Telephone |
| | James Denver C | Pacific Telephone |
| | Mc Laughlin Henry T | Pacific Telephone |
| | Morrison John E | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | Buell C E | Luskey Brothers & Co., Inc. |
| | Christoffersen J | Luskey Brothers & Co., Inc. |
| | Collins Jane | Luskey Brothers & Co., Inc. |
| | Donohue K | Luskey Brothers & Co., Inc. |
| | Dose A | Luskey Brothers & Co., Inc. |
| | Eilts B J | Luskey Brothers & Co., Inc. |
| | Frank G Wm | Luskey Brothers & Co., Inc. |
| | Jacobson R S | Luskey Brothers & Co., Inc. |
| | Just G | Luskey Brothers & Co., Inc. |
| | Mathis Loren | Luskey Brothers & Co., Inc. |
| | Michaels Mildred A | Luskey Brothers & Co., Inc. |
| | Morrison John E | Luskey Brothers & Co., Inc. |
| | Safier S M | Luskey Brothers & Co., Inc. |
| | Van Zandt A C Col | Luskey Brothers & Co., Inc. |
| | Warren Dixon S | Luskey Brothers & Co., Inc. |
| 1970 | Bak Jan | General Telephone Co., of California |
| | Brow n B L | General Telephone Co., of California |
| | Buchheim Marion H | General Telephone Co., of California |
| | Collins Michael D | General Telephone Co., of California |
| | Gulp Ralph L | General Telephone Co., of California |
| | Culp Paul Ms | General Telephone Co., of California |
| | Duhn Walter R | General Telephone Co., of California |
| | Dupke Bernard | General Telephone Co., of California |
| | Kaplan Harry C | General Telephone Co., of California |
| | Kenny Jos J | General Telephone Co., of California |
| | Nelson Carl V | General Telephone Co., of California |
| | Neville Wm G Jr | General Telephone Co., of California |
| | Poole Jerrold L | General Telephone Co., of California |
| | Sailer Shirley | General Telephone Co., of California |
| | Santos Robt R | General Telephone Co., of California |
| | Spere Chas Robt | General Telephone Co., of California |
| | Woodlyn North Apartments | General Telephone Co., of California |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1966 | Bloom Row ena S | Pacific Telephone |
| | Chilcoat H E | Pacific Telephone |
| | Cooper Lloyd K | Pacific Telephone |
| | Culp Ralph L | Pacific Telephone |
| | Denton David H | Pacific Telephone |
| | Hedges Jos A | Pacific Telephone |
| | Hooker John W | Pacific Telephone |
| | Lang B L | Pacific Telephone |
| | Lathrop Marian | Pacific Telephone |
| | Mc Clure Sandra L | Pacific Telephone |
| | Mitchell Bill | Pacific Telephone |
| | Mitchell Bill archtl presentations | Pacific Telephone |
| | Robbins Marilyn | Pacific Telephone |
| | Sonneland Dorothy M | Pacific Telephone |
| | Stutheit Oscar W | Pacific Telephone |
| | Turner S | Pacific Telephone |
| | Woodlyn North Apts | Pacific Telephone |
| | Zappia Carolyn | Pacific Telephone |
| | Zappia Ruth Mrs | Pacific Telephone |
| 1965 | Banrron LR | Luskey Brothers |
| | Burge RW | Luskey Brothers |
| | Cabezas RY | Luskey Brothers |
| | Chilcoat HE | Luskey Brothers |
| | Eilts LO | Luskey Brothers |
| | Hedges JA | Luskey Brothers |
| | Hirsch DK | Luskey Brothers |
| | Hollingsw orth M | Luskey Brothers |
| | Kiner RA | Luskey Brothers |
| | Lathrop IJ | Luskey Brothers |
| | Patterson HW | Luskey Brothers |
| | Snyder S | Luskey Brothers |
| | Woodlyn North Apts | Luskey Brothers |

# FINDINGS

**2101 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | KARI EDWARDS | Cole Information Services |
| | KARI EDWARDS | Cole Information Services |
| 2009 | KEITH NEWCOMB | Cole Information Services |
| | KEITH NEWCOMB | Cole Information Services |
| 2004 | STEPHEN NEWCOMB | Cole Information Services |
| | STEPHEN NEWCOMB | Cole Information Services |
| 2002 | NEWCOMBSlephen R | Haines Company |
| 1999 | KEITH NEWCOMB | Cole Information Services |
| | KEITH NEWCOMB | Cole Information Services |
| 1995 | New comb Stephen R | Pacific Bell |
| 1994 | NEWCOMB, STEPHEN R | Cole Information Services |
| | NEWCOMB, STEPHEN R | Cole Information Services |
| 1991 | New comb Ted | Pacific Bell |
| | New comb T&S | Pacific Bell |
| | New comb Susan Collection | Pacific Bell |
| | New comb Stephen R | Pacific Bell |
| 1986 | New comb Stephen R | Pacific Bell |
| 1980 | Mac Lean S | Pacific Telephone |
| 1975 | New comb Fred | Luskey Brothers & Co., Inc. |
| 1960 | Zoe ller Varda Kl 3 a | Luskey Brothers & Co., |

**2102 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 1986 | Enckson John W | Pacific Bell |

**2112 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | PLUMFIELD SCHOOL | Cole Information Services |
| | PLUMFIELD SCHOOL | Cole Information Services |
| 2009 | PLUMFIELD SCHOOL | Cole Information Services |
| | PLUMFIELD SCHOOL | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | PLUMFIELD SCHOOL | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | PLUMFIELD SCHOOL | Cole Information Services |
| 2002 | PRESCHOOL | Haines Company |
| | PLUMFIELD | Haines Company |
| 1999 | PLUMFIELD PRESCHOOL | Cole Information Services |
| | PLUMFIELD PRESCHOOL | Cole Information Services |
| 1995 | Plumfield Preschool | Pacific Bell |
| | Weaver Sybil | Pacific Bell |
| 1994 | WEAVER, SYBIL | Cole Information Services |
| | PLUMFIELD PRESCHOOL | Cole Information Services |
| | WEAVER, SYBIL | Cole Information Services |
| | PLUMFIELD PRESCHOOL | Cole Information Services |
| 1991 | Weaver Sybil | Pacific Bell |
| | Plumfield Preschool | Pacific Bell |
| 1986 | Plumfield Preschool | Pacific Bell |
| 1980 | Weaver Theo M | Pacific Telephone |
| | Weaver Sybil | Pacific Telephone |
| 1970 | Heinecke M | General Telephone Co., of California |
| 1966 | Heinecke M | Pacific Telephone |
| | Martin Agnes M | Pacific Telephone |
| 1965 | Heinecke M | Luskey Brothers |
| | Martin AM | Luskey Brothers |

**2120 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 1980 | Freese Mahnaz Ms Indscpe archt C | Pacific Telephone |

**2151 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | MINI MARKET | Cole Information Services |
| 2004 | EDITS MINIT MART & LIQUOR | Cole Information Services |
| | RONALD TRIVISONNO | Cole Information Services |
| 2002 | Mi NIMART&LUOOR | Haines Company |
| | WEALTH CODE | Haines Company |

| Year | Uses | Source |
|---|---|---|
| 2002 | SANTA ANA | Haines Company |
| | 6 E 87 T | Haines Company |
| 1999 | EDITH MINI MART & LIQUOR | Cole Information Services |
| 1995 | Ladd Liquors | Pacific Bell |
| 1994 | LADD LIQUORS | Cole Information Services |
| 1991 | Ladd Liquors | Pacific Bell |
| 1986 | Jartran | Pacific Bell |
| | Ladd Liquors | Pacific Bell |

**2200 E SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | LATITTUDE APARTMENTS | Cole Information Services |
| 2004 | HEARTHSTONE I APRTMNT & TWNHM | Cole Information Services |

## E SANTA CLARA PL

**2002 E SANTA CLARA PL**

| Year | Uses | Source |
|---|---|---|
| 1966 | Rundquist H A | Pacific Telephone |

## N TUSTIN AVE

**2156 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | DONUT CITY | Cole Information Services |
| 2009 | DONUT CITY | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | DONUT CITY | Cole Information Services |
| 2002 | DONUTCITY | Haines Company |
| 1999 | DONUT CITY | Cole Information Services |
| 1995 | Winchells Donut House | Pacific Bell |
| 1994 | WINCHELLS DONUT HOUSE | Cole Information Services |
| 1991 | Winchells Donut House | Pacific Bell |

# FINDINGS

**2201 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | TUSTIN CARPET & FLOORING INC | Cole Information Services |
| | FRAZEE PAINT | Cole Information Services |
| 2009 | FRAZEE INDUSTRIES INC | Cole Information Services |
| | 99 CARPET | Cole Information Services |
| | TUSTIN CARPET & FLOORING | Cole Information Services |
| | U SUTUDO | Cole Information Services |
| 2004 | U SUTUDO | Cole Information Services |
| | SUTUDO USA | Cole Information Services |
| | OAK GALLERY | Cole Information Services |
| | FRAZEE PAINT | Cole Information Services |
| 2002 | G OAK GALLERY | Haines Company |
| | PAINT&WALLCOVERIN | Haines Company |
| | FRAZEE | Haines Company |
| 1999 | MANNA COMMUNITY BUILDERS | Cole Information Services |
| | FRAZEE PAINT & WALLCOVERING | Cole Information Services |
| | OAK GALLERY | Cole Information Services |
| | U SUTUDO | Cole Information Services |
| 1995 | Stores | Pacific Bell |
| | Frazee Paint & Wallcovering | Pacific Bell |
| 1994 | FRAZEE PAINT & WALLCOVERING | Cole Information Services |
| 1980 | Santa Ana | Pacific Telephone |

**2230 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | SHEINECKEY Rchard | Haines Company |
| 1986 | Sams Exxon Service | Pacific Bell |
| 1980 | C & E Enterprises | Pacific Telephone |
| 1975 | Johns Exxon Service | Luskey Brothers & Co., Inc. |
| | Harold Keith Exxon Stn | Luskey Brothers & Co., Inc. |
| 1965 | Eds Enco | Luskey Brothers |

# FINDINGS

**2231 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | SANTA ANA BEAUTY ACADEMY | Cole Information Services |
| | AERUS | Cole Information Services |
| | ELECTROLUX | Cole Information Services |
| 2004 | OCCUPANT UNKNOWN | Cole Information Services |
| | ELECTROLUX | Cole Information Services |
| 2002 | ELECTROLUXCORP | Haines Company |
| 1999 | ELECTROLUX | Cole Information Services |
| | ELECTROLUX | Cole Information Services |
| 1995 | ELECTROLUXCORP | Pacific Bell |
| 1994 | ELECTROLUX | Cole Information Services |
| 1991 | Ray Of Hope | Pacific Bell |
| 1986 | MultiServices Escrow Corp | Pacific Bell |
| | Financial Progessing Services | Pacific Bell |
| | Financial Processing Services | Pacific Bell |
| | Certified Contractor Group Inc | Pacific Bell |

**2235 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | CHARLES FINE FURNITURE PREMIUM OUTLE | Cole Information Services |
| 2009 | LAZZARO FURNITURE INC | Cole Information Services |
| | EKONO FURNITURE | Cole Information Services |
| 2004 | JONG LEE | Cole Information Services |
| 2002 | CHARLES FINE | Haines Company |
| | FURNITURE | Haines Company |
| 1999 | CHARLES FINE FURNITURE | Cole Information Services |
| | CHARLES FINE FURNITURE | Cole Information Services |
| 1995 | California Karaoke | Pacific Bell |
| | April Designs | Pacific Bell |
| | Windsor Cottage & Co | Pacific Bell |
| | Toryi Gourmet Coffee Shop | Pacific Bell |
| | Karaoke Cal | Pacific Bell |
| 1994 | PATS SKI & SPORT SHOP | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | Store | Pacific Bell |
| 1980 | Frorm los Angeles Telephones Call | Pacific Telephone |
| | Store | Pacific Telephone |

**2239 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | DANNYS CLEANERS | Cole Information Services |
| 2009 | DANNYS CLEANERS | Cole Information Services |
| 2004 | DANNYS CLEANERS | Cole Information Services |
| | OCCUPANT UNKNOWN | Cole Information Services |
| 2002 | DANNYS CLEANERS | Haines Company |
| | WEALTH CODE | Haines Company |
| | SANTA ANA | Haines Company |
| 1999 | DANNYS CLEANERS | Cole Information Services |
| 1995 | Everlasting Images | Pacific Bell |
| 1994 | DANNYS CLEANERS | Cole Information Services |
| 1991 | Warsekinda @Laguna Beach@ | Pacific Bell |
| | Warscolas | Pacific Bell |

**2300 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | DEL TACO | Cole Information Services |
| 2009 | DEL TACO INC | Cole Information Services |
| 2004 | DEL TACO INC | Cole Information Services |
| 2002 | DELTACON | Haines Company |
| 1999 | DEL TACO | Cole Information Services |
| 1994 | DEL TACO | Cole Information Services |

**2301 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | XXXX | Haines Company |
| 1986 | C & W Union Service | Pacific Bell |
| 1975 | Wilroy Wayne Union Service | Luskey Brothers & Co., Inc. |

# FINDINGS

**2304 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 1965 | New comb F | Luskey Brothers |

**2321 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 1986 | Santa Ana | Pacific Bell |

**2323 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | PETTIFER & ASSOCIATES | Cole Information Services |
| | BLIND FACTORY INC THE | Cole Information Services |
| | THERESA CRUZ | Cole Information Services |
| | RONNIE PRATT | Cole Information Services |
| | FAMILY BARBER & SALON | Cole Information Services |
| | OUTLOOK LENDING & REALTY | Cole Information Services |
| | NORWOOD REALTY | Cole Information Services |
| | NEW VIVI TAILORING | Cole Information Services |
| | FREDERICK ULMER | Cole Information Services |
| 2009 | WAYNE WILROY | Cole Information Services |
| | ALPHA STAT | Cole Information Services |
| | MARIA AVALOS | Cole Information Services |
| | NICK PALACIO | Cole Information Services |
| | CHRIS FIORENTINO | Cole Information Services |
| | VISION INDUSTRIAL PRODUCT INC | Cole Information Services |
| | BRAUN HAIR SALON | Cole Information Services |
| | BURGIN CONSTRUCTION INC | Cole Information Services |
| | BRYAN POWERS | Cole Information Services |
| | NORWOOD REALTY | Cole Information Services |
| | NEW VIVI TAILORING | Cole Information Services |
| | ROOF SAVERS | Cole Information Services |
| | RSG OF SAINT LOUIS LLC | Cole Information Services |
| | BLIND FACTORY INC | Cole Information Services |
| | ALPHA OFFICE PRODUCTS & PRINTING CO | Cole Information Services |
| | FIORENTINO CHRIS DC | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2009 | GAIL KISHIUE | Cole Information Services |
| 2004 | LAW OFFICES | Cole Information Services |
| | RODNEY CONNORS | Cole Information Services |
| | ALPHA STATIONERS & PRINTERS | Cole Information Services |
| | LAW OFFICES OF DANIEL J DEWIT | Cole Information Services |
| | TRIPP CONSTRUCTION | Cole Information Services |
| | NEXTECH | Cole Information Services |
| | PETTIFER & ASSOCS INC | Cole Information Services |
| | OCFA BENEVOLENT ASSOCIATION | Cole Information Services |
| | VIVION INDUSTRIAL PRODUCTS INC | Cole Information Services |
| | RAY TROLL DEVELOPMENT CO | Cole Information Services |
| | INTL BEER TASTING SOCIETY | Cole Information Services |
| | MAJESTIC TREE TRIMMING SERVICE | Cole Information Services |
| | NEW VIVI TAILORING | Cole Information Services |
| | NORWOOD REALTY | Cole Information Services |
| | JOHNNY EASTWOOD | Cole Information Services |
| | SOUHEIL GHOLAM | Cole Information Services |
| | Y PENG | Cole Information Services |
| | P STANLEY | Cole Information Services |
| | GAIL KISHIUE | Cole Information Services |
| | JOYCE DENHAM | Cole Information Services |
| | MARIA MACKEY | Cole Information Services |
| | PHYLLIS SHIVERS | Cole Information Services |
| | GLENN NORWOOD | Cole Information Services |
| | NABIL MAHJOUB | Cole Information Services |
| | BURGIN CONSTRUCTION INC | Cole Information Services |
| 2002 | BUILDING ALPHA STATIONERS | Haines Company |
| | GADDY WINDOW | Haines Company |
| | FASHIONS HEALTH RESOURCES | Haines Company |
| | GROUP INC NEW VIVI TAILORING | Haines Company |
| | NORWOOD REALTY | Haines Company |
| | ORANGECOUNTYFIRE | Haines Company |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2002 | DPT BNVLNT PETTIFER&ASSOCIATE | Haines Company |
| | S RAYTROLL | Haines Company |
| | DEVELOPMENTCO SWEETTOUCHTHE | Haines Company |
| | WOODPARK | Haines Company |
| | DEVELOPMENT | Haines Company |
| 1999 | CHRIS FIORENTINO | Cole Information Services |
| | NICK PALACIO | Cole Information Services |
| | MARIA AVALOS | Cole Information Services |
| | GAIL KISHIUE | Cole Information Services |
| | WAYNE WILROY | Cole Information Services |
| | BRYAN POWERS | Cole Information Services |
| | GADDY WINDOW FASHIONS | Cole Information Services |
| | HEALTH RESOURCES GROUP INCORPORATED | Cole Information Services |
| | VIVI TAILORING | Cole Information Services |
| | SWEET TOUCH THE | Cole Information Services |
| | MED RX | Cole Information Services |
| | ALPHA STATIONERS & PRINTERS | Cole Information Services |
| | NOBLE MANAGEMENT COMPANY | Cole Information Services |
| | TROLL RAY DEVELOPMENT COMPANY | Cole Information Services |
| | ORANGE COUNTY FIRE DEPARTMENT BENEVOLENT ASSOCIATION | Cole Information Services |
| | NORWOOD REALTY | Cole Information Services |
| 1995 | Alpha Stationers & Printers | Pacific Bell |
| | Database Multitech Inc | Pacific Bell |
| | Noble Management Co | Pacific Bell |
| | Sweet Touch The | Pacific Bell |
| | Troll Ray Development Co | Pacific Bell |
| | Vivil Tailoring | Pacific Bell |
| 1994 | NORWOOD REALTY | Cole Information Services |
| | DANNYS 1 HOUR PHOTO | Cole Information Services |
| | SWANSON CONSTR INC | Cole Information Services |
| | SWANSON CONSTRUCTION INC | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1994 | NOBLE MANAGEMENT CO | Cole Information Services |
| | LARRY D MORTON | Cole Information Services |
| | PETTIFER & ASSOC | Cole Information Services |
| | ALPHA STATIONERS | Cole Information Services |
| | GOLDEN STATE PHYSICAL THERAPY | Cole Information Services |
| | DATABASE MULTITECH INC | Cole Information Services |
| 1991 | Database Multitech Inc | Pacific Bell |
| | Noble Management Co | Pacific Bell |
| | Norw ood Realty | Pacific Bell |
| | Shoecare Express | Pacific Bell |
| | Sw anson Construction Inc | Pacific Bell |
| | Window Masters | Pacific Bell |
| | Santa Ana | Pacific Bell |
| | Alpha Stationers | Pacific Bell |
| 1986 | Santa Ana | Pacific Bell |
| | Alpha Stationers | Pacific Bell |
| | Anderson Shipping Company Inc | Pacific Bell |
| | ARRIOLA ROBE RTO Martinson & Mc Kinzie | Pacific Bell |
| | BAS S E DW ARD Martinson & Mc Kinzie | Pacific Bell |
| | BE NZ LIN DA Martinson & Mc Kinzie | Pacific Bell |
| | Bobby Arlin Organization | Pacific Bell |
| | Chase Irving M | Pacific Bell |
| | GE RON DALE JOE Martunson & Mc Kinzue | Pacific Bell |
| | J D FIN AN CIAL & IN S URAN CE S E RVICE S IN C | Pacific Bell |
| | MARTIN S ON & MC KINZIE | Pacific Bell |
| | MARTIN S ON N ILS M Martinson & Mc Kinzie | Pacific Bell |
| | MC KINZIE ROBT A Martinson & Mc Kizne | Pacific Bell |
| | MOORE GE ORGE RE ALTOR | Pacific Bell |
| | Noble Management Co | Pacific Bell |
| | Norw ood Realty | Pacific Bell |
| | Pacific Locations | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | RIGMA IDE N W ILW E L Martinson & Mc Kkinzie | Pacific Bell |
| | S & A Properties | Pacific Bell |
| | S TE INKE DE AN Martinson & Mc Kinzie | Pacific Bell |
| 1980 | ALPHA S T TION E RS | Pacific Telephone |
| | BE C Management Co | Pacific Telephone |
| | Santa Ana Main Ofc | Pacific Telephone |
| | Norw ood Realty | Pacific Telephone |
| | S ITH TOM Martinson & Mc Kenzie | Pacific Telephone |
| | Smith Tom Dryw all I E Pacllco Av @Anaheim@ | Pacific Telephone |
| | W W bush Realty | Pacific Telephone |

**2328 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2009 | GREG TABOR | Cole Information Services |
| 2004 | GREG TABOR | Cole Information Services |
| 1999 | GREG TABOR | Cole Information Services |

**2333 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2002 | XXXX | Haines Company |
| 1986 | Picnic Basket Sandw ich Shop | Pacific Bell |
| 1980 | Bangs Fantastic Submarines | Pacific Telephone |

**2343 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ACE WOODWARDS ACE HARDWARE | Cole Information Services |
| 2004 | WILLIAM WOODWARD | Cole Information Services |
| 2002 | ACE HARDWARE | Haines Company |
| | WOODWARD William | Haines Company |
| | WOODWARDSACE | Haines Company |
| | HARDWARE | Haines Company |
| 1999 | WOODWARDS ACE HARDWARE | Cole Information Services |
| | ACE HARDWARE STORES | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1995 | Ace Hardw are Stores Santa ANAHEIM Woodw ards Ace Hardw are | Pacific Bell |
| | Woodw ards Ace Hardw are | Pacific Bell |
| | ACE HARDWARE | Pacific Bell |
| 1994 | WOODWARDS ACE HARDWARE | Cole Information Services |
| 1991 | ACE HARDWARE | Pacific Bell |
| | Santa Ana Woodw ards Ace Hardw are | Pacific Bell |
| | WOODWARDS ACE HARDWARE | Pacific Bell |
| 1986 | ACE HARDW ARE | Pacific Bell |
| 1980 | ACE HARDW ARE | Pacific Telephone |

**2360 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | STATER BROS MARKETS | Cole Information Services |
| 2009 | STATER BROTHERS MARKETS | Cole Information Services |
| 2002 | STATERBROS | Haines Company |
| | MARKETS | Haines Company |
| 1999 | STATER BROTHERS MARKETS | Cole Information Services |
| 1995 | Stater Bros Markets | Pacific Bell |
| | Santa ANAHEIM | Pacific Bell |
| 1994 | STATER BROTHERS MARKETS | Cole Information Services |

**2370 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | NAILS SPA CENTER | Cole Information Services |
| | TUSTIN LIQUOUR | Cole Information Services |
| | KING SUPER STORE | Cole Information Services |
| | FLING COCKTAIL LOUNGE | Cole Information Services |
| | MINI CAFE | Cole Information Services |
| 2009 | WAREHOUSE SUPER STORE | Cole Information Services |
| | TUSTIN LIQUOR | Cole Information Services |
| | GUTIERREZ MARIO | Cole Information Services |
| | MINI CAFE | Cole Information Services |
| | FLING COCKTAIL LOUNGE | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 2004 | TUSTIN LIQUOR | Cole Information Services |
| | FUNG INC | Cole Information Services |
| 2002 | A RENTAL MALL | Haines Company |
| | AAATV APPLIANCE | Haines Company |
| | RENTALS FLING COCKTAIL L | Haines Company |
| | NEWCOMB Robert | Haines Company |
| | TUSTIN LIQUOR | Haines Company |
| | WESTERN | Haines Company |
| | TYSAPPLIANCE | Haines Company |
| | RENTALS | Haines Company |
| 1999 | WESTERN TV & APPLIANCE RENTALS | Cole Information Services |
| | FLING COCKTAIL LOUNGE | Cole Information Services |
| | FLING COCKTAIL LOUNGE LOUNGE | Cole Information Services |
| | AAA TV & APPLIANCE RENTALS | Cole Information Services |
| | A RENTAL MALL | Cole Information Services |
| 1995 | FLING COCKTAIL LOUNGE | Pacific Bell |
| | Ginas Pharmacy | Pacific Bell |
| | Jeenas Pharmacy | Pacific Bell |
| 1994 | FLING COCKTAIL LOUNGE | Cole Information Services |
| | JEENAS PHARMACY | Cole Information Services |
| 1991 | UNC COCKTAIL LOUNGE | Pacific Bell |
| | Joy Teriyaki | Pacific Bell |
| | Tustin Liquor | Pacific Bell |
| | WALKER DRUG COMPANY | Pacific Bell |
| 1986 | Fling Cocktal Lounge | Pacific Bell |
| | Genovese Liquor | Pacific Bell |
| 1980 | Country Haven Kitchen | Pacific Telephone |
| | Genovese Liquor | Pacific Telephone |
| | W ALKE R DRUG COMPANZ | Pacific Telephone |
| 1975 | Fling Cocktail Lounge | Luskey Brothers & Co., Inc. |
| | Fling Cocktail Lounge | Luskey Brothers & Co., Inc. |
| | Genovese Liquor | Luskey Brothers & Co., Inc. |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | Velvet Crest Ice Cream | Luskey Brothers & Co., Inc. |
| | WALKER DRUG COMPANY | Luskey Brothers & Co., Inc. |

**2380 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ACS KITCHEN & BATH | Cole Information Services |
| | TUSTIN POWER CUT | Cole Information Services |
| | PEDRO ARMENDARIZ | Cole Information Services |
| | CANYON CREST CLEANERS | Cole Information Services |
| | MANE ATTRACTION | Cole Information Services |
| | BETTER LIFE | Cole Information Services |
| 2009 | MANE ATTRACTION HAIR DESIGN | Cole Information Services |
| | CANYON CREST CLEANERS | Cole Information Services |
| | PABLOS HAIR DESIGNS | Cole Information Services |
| | AQUA SOURCE | Cole Information Services |
| | PHILIPS HAIR FASHIONS INC | Cole Information Services |
| | BETTER LIFE | Cole Information Services |
| 2004 | VICKY CHENELLE | Cole Information Services |
| | P & J PROPERTY MANAGEMENT | Cole Information Services |
| | MANE ATTRACTIONS | Cole Information Services |
| | SUN VIDEO | Cole Information Services |
| | AQUA SOURCE | Cole Information Services |
| | CANYON CREST CLEANERS | Cole Information Services |
| | BETTER LIFE | Cole Information Services |
| | PABLOS HAIR DESIGN | Cole Information Services |
| | SECOND SEASON | Cole Information Services |
| 1999 | AQUA SOURCE THE | Cole Information Services |
| | SECOND SEASON CONSIGNMENT RESALE SHOP | Cole Information Services |
| | P & J PROPERTY MANAGEMENT | Cole Information Services |
| | SUN VIDEO | Cole Information Services |
| | AVENUE ATTITUDES | Cole Information Services |
| | CANYON CREST CLEANERS | Cole Information Services |
| | HAIR STYLERS UNLIMITED | Cole Information Services |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1999 | PHILIPS HAIR FASHIONS | Cole Information Services |
| | BETTER LIFE THE | Cole Information Services |
| 1995 | BETTER LIFE THE | Pacific Bell |
| | Canyon Crest Cleaners | Pacific Bell |
| | Hair Stylers Unlimited | Pacific Bell |
| | Philips Hair Fashions | Pacific Bell |
| | Second Season Consignment Family Resale Shop | Pacific Bell |
| | Sun Video | Pacific Bell |
| 1994 | JANES FASHION & JEWELRY | Cole Information Services |
| | CANYON CREST CLEANERS | Cole Information Services |
| | CAL EX ACCOMODATORS INC | Cole Information Services |
| | BETTER LIFE | Cole Information Services |
| | GREATER ORANGE COUNTY ESCROW | Cole Information Services |
| | PHILIPS HAIR FASHIONS | Cole Information Services |
| | HAIR STYLERS UNLIMITED | Cole Information Services |
| | SUN VIDEO | Cole Information Services |
| 1991 | Aaaantiques Collectables & More | Pacific Bell |
| | Cal Ex Accomodators Inc | Pacific Bell |
| | Canyon Crest Cleaners | Pacific Bell |
| | Hair Stylers Unlimited | Pacific Bell |
| | Philips Hair Fashions | Pacific Bell |
| | Spring Crest Custom Draperies | Pacific Bell |
| | Sun Video | Pacific Bell |
| 1986 | Antiques & More | Pacific Bell |
| | Canyon Crest Cleaners | Pacific Bell |
| | Florence Smales Modeling Agency | Pacific Bell |
| | Florence Smales Studio Of Charm & Modeling | Pacific Bell |
| | Hair Stylers Unlimited | Pacific Bell |
| | Klm Yang Painting & Decorating Co | Pacific Bell |
| | Smales Florence Studio Of Charm & Modeling | Pacific Bell |
| | PHILIPS HAIR FAS HION S | Pacific Bell |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1986 | Petticoat Junction A Country Store | Pacific Bell |
| 1980 | I Country Haven Antiques | Pacific Telephone |
| | FLORE N CE S MALE S MODE LIN G AGE N CY | Pacific Telephone |
| | FLORE N CE S MALE S S TUDIO OF CHARM & MODE LIN G | Pacific Telephone |
| | Goldenw est Cleaners | Pacific Telephone |
| | Hair Stylers Unlimited | Pacific Telephone |
| 1975 | FLORENCE SMALES MODELING AGENCY | Luskey Brothers & Co., Inc. |
| | FLORENCE SMALES STUDIO OF CHARM & MODELING | Luskey Brothers & Co., Inc. |
| | Georgias House Of Fashions | Luskey Brothers & Co., Inc. |
| | Goldenw est Cleaners | Luskey Brothers & Co., Inc. |
| | Pauls Von Mens Hair Design | Luskey Brothers & Co., Inc. |
| | PHILIPS HAIR FASHIONS | Luskey Brothers & Co., Inc. |
| | SMALES FLORENCE STUDIO OF CHARM & MODELING | Luskey Brothers & Co., Inc. |
| | Spring Crest Drapery Of @Santa Ana@ | Luskey Brothers & Co., Inc. |
| | Von Pauls Mens Hair Design | Luskey Brothers & Co., Inc. |
| | Ye Olde Coffee Grinder | Luskey Brothers & Co., Inc. |

**2401 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | ALLEN TIRE COMPANY | Cole Information Services |
| 2009 | ALLEN TIRE CO | Cole Information Services |
| 2002 | ALLENTIRECO | Haines Company |
| 1999 | ALLEN TIRE COMPANY | Cole Information Services |
| 1995 | Allen Tire Co | Pacific Bell |
| 1994 | ALLEN TIRE CO | Cole Information Services |
| 1991 | Allen Tire Co | Pacific Bell |
| 1986 | Allen Tire Co | Pacific Bell |
| 1980 | Dependable Off Road Equipment Co ic | Pacific Telephone |
| | I CE N TE R | Pacific Telephone |
| | S J & J Distributing Co Inc | Pacific Telephone |

# FINDINGS

| Year | Uses | Source |
|---|---|---|
| 1975 | AUTOMOTIVE CENTER OF ORANGE COUNTY | Luskey Brothers & Co., Inc. |
| | ORANGE COUNTY AUTOMOTIVE CENTER | Luskey Brothers & Co., Inc. |

**2403 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | SUBWAY SANDWICHES | Cole Information Services |
| 2009 | SUBWAY SANDWICHES 1851 | Cole Information Services |
| | SUBWAY | Cole Information Services |
| 2004 | SUBWAY SANDWICHES & SALADS | Cole Information Services |
| 2002 | +SUBWAY SANDWICHES | Haines Company |
| 1999 | SUBWAY SANDWICHES & SALADS | Cole Information Services |
| 1995 | Subway Sandwiches & Salads | Pacific Bell |
| 1994 | SUBWAY SANDWICHES & SALADS | Cole Information Services |

**2405 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | PREMIER ONE INSURANCE SERVICES INC | Cole Information Services |
| 2009 | PREMIERE AUTO INSURANCE | Cole Information Services |
| 2004 | COASTAL AUTO INSURANCE SALES | Cole Information Services |
| 2002 | XXXX | Haines Company |
| 1991 | J & J Fashion Design | Pacific Bell |

**2407 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2014 | AMERICAN WORK FORCE | Cole Information Services |
| 2009 | AMERICAN WORK FORCE | Cole Information Services |
| 2004 | DREAM DECOR | Cole Information Services |
| | SOUND HIFONIC | Cole Information Services |
| 2002 | HIFONICSOUND | Haines Company |
| 1991 | Landy Mortgage | Pacific Bell |
| | Phamyland Realty | Pacific Bell |

# FINDINGS

**2409 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2004 | X TRAINING CTR | Cole Information Services |
| | NORA TORREZ | Cole Information Services |
| 2002 | CAPITALBOARDSHOP | Haines Company |
| 1994 | PLUM PEACH INC | Cole Information Services |
| 1991 | Plum Peach Inc | Pacific Bell |

**2411 N TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 2004 | LIBRERIA VICION MINISTERIAL | Cole Information Services |
| | SALUD Y PODER TWO THOUSAND | Cole Information Services |

## SANTA CLARA

**2151 SANTA CLARA**

| Year | Uses | Source |
|---|---|---|
| 1995 | Ladd Modern Sprinkler Co | Pacific Bell |

## SANTA CLARA AVE

**2010 SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 1986 | Lavigne Roger | Pacific Bell |

**2073 SANTA CLARA AVE**

| Year | Uses | Source |
|---|---|---|
| 1986 | Henry Paul H | Pacific Bell |

## TUSTIN AVE

**2176 TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 1975 | Balgie Ron | Luskey Brothers & Co., Inc. |
| 1966 | Campbell Robt R | Pacific Telephone |

# FINDINGS

**2380 TUSTIN AVE**

| Year | Uses | Source |
|---|---|---|
| 1980 | Better Living | Pacific Telephone |
| | Better Life The | Pacific Telephone |
| 1975 | Better Living Ofc P O Box 6312 @Orange@ | Luskey Brothers & Co., Inc. |
| | Better Life The | Luskey Brothers & Co., Inc. |

## TUSTIN AVE N

**2305 TUSTIN AVE N**

| Year | Uses | Source |
|---|---|---|
| 1991 | Huntley Chas Michael | Pacific Bell |

## W BUFFALO AVE

**2200 W BUFFALO AVE**

| Year | Uses | Source |
|---|---|---|
| 1952 | N Main west | Luskeys Directory Service Co. |

# FINDINGS

## ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

| Address Researched | Address Not Identified in Research Source |
|---|---|
| N Tustin Ave | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2002 E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1994, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2002 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2002 E SANTA CLARA PL | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2005 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2010 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2010 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2010 SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2020 E SANTA CLARA AVE | 2014, 2009, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2026 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2026 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2030 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2030 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2031 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2031 E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2034 E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1994, 1992, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2034 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2073 SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2101 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1970, 1966, 1965, 1961, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2101 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2102 E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2112 E SANTA CLARA AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2112 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1975, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2120 E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2151 E SANTA CLARA AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2151 E SANTA CLARA AVE | 2009, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2151 SANTA CLARA | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2156 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2156 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2176 TUSTIN AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1971, 1970, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2200 E SANTA CLARA AVE | 2009, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2200 W BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2201 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2201 E BUFFALO AVE | 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2201 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2201 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2201 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2202 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2202 E BUFFALO AVE | 2004, 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2203 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2203 E BUFFALO AVE | 2009, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2204 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2204 E BUFFALO AVE | 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2205 E E SANTA CLARA AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2206 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2206 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2206 E BUFFALO AVE | 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2208 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2208 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1994, 1992, 1986, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2208 E BUFFALO AVE | 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2210 E BUFFALO AVE | 2014, 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2212 BUFFALO AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2212 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2212 E BUFFALO AVE | 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2220 E BUFFALO AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2230 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1971, 1970, 1966, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2231 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2231 N TUSTIN AVE | 2009, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2235 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2235 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1991, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2239 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2239 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2300 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2300 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2301 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1980, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2304 N TUSTIN AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2305 TUSTIN AVE N | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2321 N TUSTIN AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2323 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2323 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2328 N TUSTIN AVE | 2014, 2002, 2001, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2333 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2343 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2343 N TUSTIN AVE | 2009, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2360 N TUSTIN AVE | 2004, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2360 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2370 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2370 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2380 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2380 N TUSTIN AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1994, 1992, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# FINDINGS

| Address Researched | Address Not Identified in Research Source |
|---|---|
| 2380 TUSTIN AVE | 2014, 2009, 2004, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2401 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2401 N TUSTIN AVE | 2004, 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2403 N TUSTIN AVE | 2002, 2001, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2403 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2405 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2405 N TUSTIN AVE | 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2407 N TUSTIN AVE | 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2407 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2409 N TUSTIN AVE | 2014, 2009, 2004, 2001, 1999, 1997, 1995, 1994, 1992, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2409 N TUSTIN AVE | 2014, 2009, 2002, 2001, 1999, 1997, 1995, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |
| 2411 N TUSTIN AVE | 2014, 2009, 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1975, 1971, 1970, 1966, 1965, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

## TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

| Address Researched | Address Not Identified in Research Source |
| --- | --- |
| 2109 E Santa Clara Avenue | 2002, 2001, 1999, 1997, 1995, 1994, 1992, 1991, 1986, 1980, 1971, 1961, 1960, 1956, 1955, 1952, 1950, 1946, 1945, 1941, 1936, 1930, 1926, 1925, 1922, 1921, 1920 |

# Interview Questionnaire

# PHASE I ENVIRONMENTAL SITE ASSESSMENT *USER* QUESTIONNARE

Please consider the following six items. If you are unaware of any information pertaining to the items, please check the first box below and sign in the provided area. If you are aware of any information pertaining to one or more of the items, please check the second box below, sign in the provided area, and comment on the information that you are aware of at the bottom of the page. You may also attach supporting documentation to this questionnaire if it is available.

1. Specialized knowledge or experience material to recognized environmental conditions in connection with the site.
2. Actual knowledge of environmental liens or activity and use limitations encumbering the site or in connection with the site.
3. Reason for significantly lower purchase price due to the presence of hazardous substances or petroleum products.
4. Commonly known or reasonably ascertainable information within the local community about the site that is material to recognized environmental conditions in connection with the site.
5. Proceedings involving the site including pending, threatened or past environmental litigation, proceedings or notices of possible violations of environmental laws or liability in connection with the site.
6. Recorded land title records and lien records recorded against the site to identify environmental liens and activity and use limitations.

☒ **Client agrees that they have <u>NO KNOWLEDGE</u> of the above-listed items 1 - 6:**

**CLIENT:** Schuyler Jackson (McDONALD'S CORPORATION)

**Printed Name:** SCHUYLER JACKSON **Title:** NREM **Date:** 9/23/21

☐ **Client agrees that they <u>HAVE KNOWLEDGE</u> of <u>ONE OR MORE</u> the above-listed items 1 - 6 and will provide supporting commentary below and/or attach documentation:**

**CLIENT:**_____

**Printed Name:**_____ **Title:**_____ **Date:**_____

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| Question | Response | Comments |
|---|---|---|
| Is The Subject Property used for an **industrial use**? | Yes (No) Unk | |
| Is any *adjoining property* used for an **industrial use**? | Yes (No) Unk | |
| Did you observe evidence, or do you have any prior knowledge that The Subject Property has been previously used for an **industrial use**? | Yes (No) Unk | |
| Did you observe or you have any prior knowledge that any *adjoining property* has been previously used for an **industrial use**? | Yes (No) Unk | |
| Did you observe evidence or do you have any knowledge that The Subject Property is currently or has previously been used for any of the following: (if applicable, identify which)<br>• gasoline station<br>• motor repair facility<br>• commercial printing facility<br>• dry cleaners<br>• photo developing laboratory<br>• junkyard or landfill<br>• waste treatment, storage, disposal processing or recycling facility | Yes (No) Unk | |
| Did you observe evidence of or do you have any knowledge of any adjoining property that is currently or has previously been used for any of the following: (if applicable, identify which)<br>• gasoline station<br>• motor repair facility<br>• commercial printing facility<br>• dry cleaners<br>• photo developing laboratory<br>• junkyard or landfill<br>• waste treatment, storage, disposal, processing or recycling facility | (Yes) No Unk | We have a dry Cleaner in our center. |

| Question | Response | Comments |
|---|---|---|
| Did you observe evidence or do you have any knowledge that there are currently or have been previously any damaged or discarded **automotive or industrial batteries, pesticides, paints, or other chemicals** in individual containers of >5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at The Subject Property? | Yes No Unk | |
| Did you observe evidence or do you have any knowledge that there currently or have been previously any **industrial drums** (typically 55 gal) or **sacks of chemicals** located on The Subject Property? | Yes No Unk | |
| Did you observe evidence or do you have any prior knowledge that **fill dirt** has been brought on The Subject Property that **originated from a contaminated source or is of an unknown origin**? | Yes No Unk | |
| Did you observe evidence or do you have any prior knowledge that there is currently or have been previously any pits, **ponds or lagoons** located on The Subject Property in connection with waste treatment or waste disposal? | Yes No Unk | |
| Did you observe evidence or do you have any prior knowledge that there is currently or has been previously any **stained soil** on The Subject Property? | Yes No Unk | |
| Did you observe evidence or you have any prior knowledge that there is currently or has been previously any **registered or unregistered storage tanks** (above or underground) located on The Subject Property? | Yes No Unk | |
| Did you observe evidence or do you have any knowledge that there is currently or has been previously any **vent pipes, fill pipes, or access ways** indicating a fill pipe protruding from the ground on The Subject Property or adjacent to any structure on The Subject Property? | Yes No Unk | |

| Question | Response | Comments |
|---|---|---|
| Is there currently evidence of **leaks, spills or staining** by substances other than water, or **foul odors** associated with flooring, drains, walls, ceilings, or exposed grounds on The Subject Property? | Yes No Unk | |
| If The Subject Property is served by a **private well or non-public water system**, is there evidence or do you have any knowledge that contaminants have been identified in the well or system, or that the well has been designated as contaminated by any government environmental/health agency? | Yes No Unk | |
| Do you have any knowledge of **environmental liens or government notification** relating to past or recurrent violations of environmental laws with respect to The Subject Property? | Yes No Unk | |
| Have you been informed of the current or past existence of **hazardous substances or petroleum products** with respect to The Subject Property? | Yes No Unk | |
| Do you have any knowledge of any **environmental site assessment** of the property or facility that indicated the **presence of hazardous substances or petroleum products on, or contamination** of, The Subject Property, or **recommended further assessment** of The Subject Property? | Yes No Unk | |
| Do you know of any past, threatened, or pending **lawsuits or administrative proceedings** concerning a release or threatened release of any hazardous substance or petroleum products involving The Subject Property by any owner or occupant of the property? | Yes No Unk | |
| Does The Subject Property **discharge waste water** (not including sanitary waste or storm water) onto or adjacent to the property and/or into a storm water system? | Yes No Unk | |

| Question | Response | Comments |
|---|---|---|
| Do you have any prior knowledge that any **hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or any other waste materials** have been dumped above grade, buried and/or burned on The Subject Property? | Yes No Unk | |
| Is there a **transformer, capacitor, or any hydraulic equipment** for which there are any records indicating the **presence of PCBs** on The Subject Property? | Yes No Unk | |

Completed by:

Name: Martin Pupil
Title: EMD / Partner
Firm: Stream Realty
Address: 3161 Michelson dr Irvine
Phone Number: 949-331-3115
Date: 10/4/21
Role at Site: Acq & General Partner.
Number of Years at the Site: 1

# EDR Reports

Mcdonalds Santa Ana

2109 E Santa Clara Avenue

Santa Ana, CA 92705

Inquiry Number: 6703026.3

October 14, 2021

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

10/14/21

| Site Name: | Client Name: |
|---|---|
| Mcdonalds Santa Ana | Universal Engineering Sciences |
| 2109 E Santa Clara Avenue | 695 Edison Way |
| Santa Ana, CA 92705 | Reno, NV 89502 |
| EDR Inquiry # 6703026.3 | Contact: Alexia Mackey |

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## *Certified Sanborn Results:*

**Certification #** 4A5C-4BA7-8F06

**PO #** NA

**Project** McDonald s Santa Ana

**UNMAPPED PROPERTY**

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 4A5C-4BA7-8F06

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✔ Library of Congress
- ✔ University Publications of America
- ✔ EDR Private Collection

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**Mcdonalds Santa Ana**
2109 E Santa Clara Avenue
Santa Ana, CA 92705

Inquiry Number: 6703026.2s
October 14, 2021

# The EDR Radius Map™ Report with GeoCheck®

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Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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## GEOCHECK ADDENDUM

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***Thank you for your business.***
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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

**TARGET PROPERTY INFORMATION**

**ADDRESS**

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**COORDINATES**

| | |
|---|---|
| Latitude (North): | 33.7675020 - 33˚ 46' 3.00'' |
| Longitude (West): | 117.8367190 - 117˚ 50' 12.18'' |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 422518.2 |
| UTM Y (Meters): | 3736498.2 |
| Elevation: | 193 ft. above sea level |

**USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY**

| | |
|---|---|
| Target Property Map: | 5641308 ORANGE, CA |
| Version Date: | 2012 |

**AERIAL PHOTOGRAPHY IN THIS REPORT**

| | |
|---|---|
| Portions of Photo from: | 20140514 |
| Source: | USDA |

## MAPPED SITES SUMMARY

Target Property Address:
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| A1 | ALBERTO RODRIGUEZ | 2026 EAST SANTA CLAR | RCRA NonGen / NLR | Lower | 118, 0.022, SW |
| B2 | STATER BROS. MARKETS | 2360 N TUSTIN AVE | CERS HAZ WASTE, CERS | Higher | 139, 0.026, NNE |
| B3 | STATER BROS MARKETS | 2360 N TUSTIN AVE | RCRA NonGen / NLR | Higher | 139, 0.026, NNE |
| B4 | THE VILLAGE AT ORANG | 2300 N. TUSTIN AVENU | RCRA NonGen / NLR | Lower | 155, 0.029, East |
| A5 | 675 SANTA ANA AREA | 2031 EAST SANTA CLAR | AST | Higher | 217, 0.041, West |
| A6 | CALIFORNIA HIGHWAY P | 2031 E SANTA CLARA | RCRA-SQG, UST, CERS HAZ WASTE, SWEEPS UST, HIST... | Higher | 217, 0.041, West |
| A7 | CALIFORNIA HIGHWAY P | 2031 E SANTA CLARA A | RCRA NonGen / NLR | Higher | 217, 0.041, West |
| A8 | CALIFORNIA HIGHWAY P | 2031 E SANTA CLARA A | HIST UST | Higher | 217, 0.041, West |
| C9 | E-Z SERVE | 2151 SANTA CLARA | LUST, HIST CORTESE | Lower | 242, 0.046, ESE |
| C10 | UNOCAL #5348 | 2301 TUSTIN AVE | LUST, CHMIRS | Lower | 244, 0.046, ESE |
| C11 | STATION #5348 | 2301 N TUSTIN AVE | HIST UST | Lower | 287, 0.054, East |
| C12 | C & C UNOCAL 76 | 2301 N TUSTIN | LUST, CA FID UST, Cortese, CERS, HWTS | Lower | 287, 0.054, East |
| C13 | C&C UNOCAL 76 | 2301 N TUSTIN AVE | EDR Hist Auto | Lower | 287, 0.054, East |
| C14 | UNION OIL SERVICE ST | 2301 N TUSTIN AVENUE | SWEEPS UST, HIST UST | Lower | 287, 0.054, East |
| D15 | SB JOO INC | 2239 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 401, 0.076, SE |
| D16 | DANNYS CLEANERS | 2239 N TUSTIN AVE | EDR Hist Cleaner | Lower | 401, 0.076, SE |
| D17 | DANNY'S DRY CLEANERS | 2239 N TUSTIN AVE | DRYCLEANERS, HAZNET, HWTS | Lower | 401, 0.076, SE |
| D18 | DANNY'S CLEANERS | 2239 N TUSTIN AVE | DRYCLEANERS | Lower | 401, 0.076, SE |
| D19 | DANNY'S DRY CLEANERS | 2239 N TUSTIN AVE | DRYCLEANERS | Lower | 401, 0.076, SE |
| B20 | CANYON CREST CLEANER | 2380 N TUSTIN AVE | DRYCLEANERS, HAZNET, HWTS | Higher | 404, 0.077, NNE |
| B21 | KING & CREST | 2380 N TUSTIN AV | EDR Hist Cleaner | Higher | 404, 0.077, NNE |
| B22 | CANYON CREST CLEANER | 2380 N TUSTIN AVE UN | DRYCLEANERS | Higher | 404, 0.077, NNE |
| B23 | CANYON CREST CLEANER | 2380 N TUSTIN AVE ST | RCRA NonGen / NLR | Higher | 404, 0.077, NNE |
| B24 | CANYON CREST CLEANER | 2380 N TUSTIN AVE UN | DRYCLEANERS | Higher | 404, 0.077, NNE |
| D25 | EXXON SERVICE STATIO | 2230 TUSTIN AVE | LUST | Lower | 414, 0.078, SSE |
| D26 | EXXON SERVICE STATIO | 2230 N TUSTIN AVE | SWEEPS UST | Lower | 414, 0.078, SSE |
| D27 | EXXON SERVICE STATIO | 2230 N TUSTIN | LUST, CA FID UST, Cortese, CERS | Lower | 414, 0.078, SSE |
| D28 | EXXON SERVICE STATIO | 2230 N TUSTIN | HIST UST | Lower | 414, 0.078, SSE |
| D29 | EXXON SERVICE STATIO | 2230 N TUSTIN AVE | SWEEPS UST | Lower | 414, 0.078, SSE |
| D30 | RICHMOND EDWARD | 2230 N TUSTIN | EDR Hist Auto | Lower | 414, 0.078, SSE |
| 31 | DANNYS ONE HOUR PHOT | 2323 N TUSTIN AVE | RCRA-SQG, FINDS, ECHO | Lower | 426, 0.081, ENE |
| E32 | ALLEN TIRE CO 1694 | 2401 N TUSTIN AVE | RCRA NonGen / NLR | Higher | 465, 0.088, NE |
| E33 | ALLEN FRED ENTERPRIS | 2401 N TUSTIN AVE | EDR Hist Auto | Higher | 465, 0.088, NE |
| E34 | G&M OIL CO #12 | 2401 N TUSTIN AVE | SWEEPS UST, CA FID UST | Higher | 465, 0.088, NE |
| E35 | FRED ALLEN ENTERPRIS | 2401 N TUSTIN AVE | HIST UST, HAZNET, HWTS | Higher | 465, 0.088, NE |
| E36 | G&M OIL #12 | 2401 N TUSTIN AVE | LUST, HIST UST, Cortese, CERS | Higher | 465, 0.088, NE |
| E37 | ALLEN TIRE COMPANY 1 | 2401 N TUSTIN AVE | CERS HAZ WASTE, CERS, HWTS | Higher | 465, 0.088, NE |
| E38 | FRED ALLEN ENTERPRIS | 2401 N TUSTIN AVE | RCRA NonGen / NLR | Higher | 465, 0.088, NE |
| C39 | LADD LIQUORS 9 | 2151 E SANTA CLARA A | LUST, HIST UST, Cortese, CERS | Lower | 476, 0.090, East |

MAPPED SITES SUMMARY

Target Property Address:
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| C40 | LADD LIQUORS #9 | 2151 E SANTA CLARA A | SWEEPS UST, CA FID UST | Lower | 476, 0.090, East |
| E41 | ALLEN TIRE CO INC | 2401 TUSTIN AVE | EDR Hist Auto | Higher | 503, 0.095, NNE |
| E42 | ALLEN TIRE COMPANY | 2401 TUSTIN AVE | LUST | Higher | 503, 0.095, NNE |
| D43 | FRAZEE PAINT | 2201 N TUSTIN AVENUE | RCRA-SQG, SWEEPS UST, HIST UST, CA FID UST, CHMIRS | Lower | 608, 0.115, SE |
| D44 | SHERIN WILLIAMS #153 | 2201 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 608, 0.115, SE |
| D45 | SHERWIN-WILLIAMS #15 | 2201 N TUSTIN AVE | CERS HAZ WASTE, HAZNET | Lower | 608, 0.115, SE |
| D46 | FRAZEE ENTERPRISES L | 2201 N. TUSTIN AVE. | RCRA NonGen / NLR | Lower | 608, 0.115, SE |
| D47 | DANE VALDEZ | 2202 E. BUFFALO AVE | RCRA NonGen / NLR | Lower | 634, 0.120, SE |
| F48 | ORANGE COUNTY CEMETE | 1919 SANTA CLARA AVE | LUST | Lower | 661, 0.125, West |
| F49 | ORANGE COUNTY CEMETE | 1919 E SANTA CLARA A | LUST, HIST UST, Cortese, CERS | Lower | 661, 0.125, West |
| F50 | SANTA ANA CEMETERY | 1919 E SANTA CLARA A | SWEEPS UST, CA FID UST, HWTS | Lower | 661, 0.125, West |
| G51 | THE BASCOM GROUP LLC | 2414 N. TUSTIN AVE. | RCRA NonGen / NLR | Higher | 723, 0.137, NNE |
| G52 | THE BASCOM GROUP LLC | 2414 N. TUSTIN AVE. | RCRA NonGen / NLR | Higher | 723, 0.137, NNE |
| H53 | MATT REEVES | 2141 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 790, 0.150, SSE |
| H54 | FOOTHILL DRY CLEANER | 2120 N TUSTIN AVE | RCRA-SQG, FINDS, ECHO, EMI, HAZNET, HWTS | Lower | 871, 0.165, SSE |
| H55 | FOOTHILL CLEANERS | 2120 N TUSTIN AVE | DRYCLEANERS | Lower | 871, 0.165, SSE |
| H56 | FOOTHILL CLEANERS | 2120 N TUSTIN | DRYCLEANERS | Lower | 871, 0.165, SSE |
| H57 | FOOTHILL CLEANERS | 2120 N TUSTIN AVE | DRYCLEANERS | Lower | 871, 0.165, SSE |
| H58 | CARL & LENA KLATT TR | 2102 N TUSTIN AVE | SWEEPS UST | Lower | 878, 0.166, South |
| I59 | BEVERLY MAYO | 2113 CATALINA AVENUE | RCRA NonGen / NLR | Lower | 897, 0.170, SSW |
| H60 | WHITE HORSE CLEANERS | 2112 N TUSTIN AVE | DRYCLEANERS | Lower | 900, 0.170, SSE |
| H61 | WHITE HORSE CLEANERS | 2112 N TUSTIN AVE | DRYCLEANERS | Lower | 900, 0.170, SSE |
| H62 | WHITE HORSE CLEANERS | 2112 N TUSTIN AVE | DRYCLEANERS | Lower | 900, 0.170, SSE |
| 63 | GEORGE BARNET | 2210 EAST AVALON | RCRA NonGen / NLR | Lower | 906, 0.172, SE |
| J64 | MARTHA WORALL | 1913 E. AVALON AVENU | RCRA NonGen / NLR | Lower | 925, 0.175, WSW |
| J65 | KATELYN FINLEY | 1918 E. AVALON AVENU | RCRA NonGen / NLR | Lower | 949, 0.180, WSW |
| I66 | STEVE BOWERS | 2118 CATALINA AVE | RCRA NonGen / NLR | Lower | 1023, 0.194, South |
| K67 | LANELL O'NEILL | 2217 PASADENA ST | RCRA NonGen / NLR | Lower | 1076, 0.204, ESE |
| K68 | LANELL O?NEILL | 2217 PASADENA ST, | RCRA NonGen / NLR | Lower | 1076, 0.204, ESE |
| L69 | SPEEDIE CLEAN $5 IN | 2035 N TUSTIN AVE | SWEEPS UST, CA FID UST, HWTS | Lower | 1103, 0.209, SSE |
| L70 | BEACON BAY AUTO WASH | 2035 TUSTIN AVE. N | LUST, Cortese, CERS | Lower | 1103, 0.209, SSE |
| L71 | BEACON BAY AUTO WASH | 2035 N. TUSTIN AVE. | UST | Lower | 1103, 0.209, SSE |
| L72 | JIFFY LUBE #1303 | 2025 N TUSTIN AVE | CERS HAZ WASTE, CERS TANKS, HAZNET, CERS, HWTS | Lower | 1154, 0.219, SSE |
| L73 | JJJZ, INC. DBA JIFFY | 2025 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 1154, 0.219, SSE |
| L74 | JIFFY LUBE #1303 | 2025 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 1154, 0.219, SSE |
| L75 | AUTOCARE EXPRESS INC | 2015 N TUSTIN AVE ST | CERS HAZ WASTE, HAZNET, CERS, HWTS | Lower | 1170, 0.222, SSE |
| L76 | BEACON BAY AUTO WASH | 2015 N TUSTIN | CA FID UST | Lower | 1170, 0.222, SSE |
| L77 | JIFFY LUBE | 2015 N TUSTIN AVE | RCRA-SQG, HAZNET, HWTS | Lower | 1170, 0.222, SSE |
| L78 | AUTOCARE EXPRESS INC | 2015 N TUSTIN AVE ST | RCRA NonGen / NLR | Lower | 1170, 0.222, SSE |

## MAPPED SITES SUMMARY

Target Property Address:
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| L79 | BRAKE EXPRESS | 2015 N TUSTIN AVE | SWEEPS UST, HIST UST, HAZNET, HWTS | Lower | 1170, 0.222, SSE |
| 80 | MICHELLE BELACIC | 2244 FRANZEN AVE | RCRA NonGen / NLR | Higher | 1171, 0.222, ENE |
| J81 | SCOTT ASHLOCK | 1902 E. AVALON AVENU | RCRA NonGen / NLR | Lower | 1204, 0.228, WSW |
| 82 | JEFF LEDON | 2530 N TUSTIN #119 U | RCRA NonGen / NLR | Higher | 1286, 0.244, North |
| L83 | FIRESTONE COMPLETE A | 2005 N TUSTIN AVE ST | RCRA NonGen / NLR | Lower | 1293, 0.245, SSE |
| L84 | MO'S GARAGE | 2005 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 1293, 0.245, SSE |
| L85 | MOTRA TRANSMISSIONS | 2005 N TUSTIN AVE ST | RCRA-SQG, FINDS, ECHO, HAZNET, HWTS | Lower | 1293, 0.245, SSE |
| L86 | SADDLEBACK AUTOMOTIV | 2005 N TUSTIN AVE | RCRA NonGen / NLR | Lower | 1293, 0.245, SSE |
| L87 | TUSTIN AVE AUTOPLEX | 2005 N TUSTIN AVE | CERS HAZ WASTE, HAZNET, CERS, HWTS | Lower | 1293, 0.245, SSE |
| 88 | DANNY K CLEANERS (FO | 1941 N. TUSTIN AVENU | ENVIROSTOR, VCP, DEED | Lower | 1447, 0.274, SSE |
| M89 | TUSTIN AVENUE | | PFAS | Lower | 2103, 0.398, SSE |
| N90 | SHELL SERVICE STATIO | 889 TUSTIN | LUST, Cortese, CERS | Higher | 2152, 0.408, North |
| N91 | JASMINE'S SHELL | 889 S TUSTIN AVE | LUST, HAZNET, HWTS | Higher | 2152, 0.408, North |
| M92 | ARCO | 13972 TUSTIN | LUST, Cortese, HIST CORTESE, CERS | Lower | 2236, 0.423, SSE |
| 93 | FAIRHAVEN WELL 3 | | PFAS | Higher | 2312, 0.438, NE |
| 94 | FORMER DRY CLEANER, | NORTHEAST CORNER 17T | ENVIROSTOR, VCP | Lower | 2898, 0.549, SSE |
| 95 | AZTEC CLEANERS | 1730 EAST 17TH STREE | ENVIROSTOR | Lower | 3266, 0.619, SW |
| 96 | TUSTIN'S FRENCH QUAR | 17301 17TH STREET | ENVIROSTOR, VCP | Lower | 3627, 0.687, SE |
| 97 | CIRCUIT ONE (DIVISIO | 2101 GRAND AVE | ENVIROSTOR | Lower | 4599, 0.871, WSW |
| 98 | ACE CLEANERS | 2525 NORTH GRAND AVE | ENVIROSTOR | Lower | 4669, 0.884, WNW |
| 99 | WESTERN MEDICAL CTR | 1001 N TUSTIN | ENVIROSTOR, CERS HAZ WASTE, SWEEPS UST, HIST UST, | Lower | 4796, 0.908, South |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

### *Federal Delisted NPL site list*

Delisted NPL ..... National Priority List Deletions

### *Federal CERCLIS list*

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

### *Federal CERCLIS NFRAP site list*

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

### *Federal RCRA CORRACTS facilities list*

CORRACTS ..... Corrective Action Report

### *Federal RCRA non-CORRACTS TSD facilities list*

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

### *Federal RCRA generators list*

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### *Federal institutional controls / engineering controls registries*

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List

# EXECUTIVE SUMMARY

US INST CONTROLS..... Institutional Controls Sites List

***Federal ERNS list***

ERNS..... Emergency Response Notification System

***State- and tribal - equivalent NPL***

RESPONSE..... State Response Sites

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF..... Solid Waste Information System

***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

***State and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

***State and tribal Brownfields sites***

BROWNFIELDS..... Considered Brownfieds Sites Listing

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs

# EXECUTIVE SUMMARY

| | |
|---|---|
| Toxic Pits | Toxic Pits Cleanup Act Sites |
| US CDL | National Clandestine Laboratory Register |

***Local Land Records***

| | |
|---|---|
| LIENS | Environmental Liens Listing |
| LIENS 2 | CERCLA Lien Information |

***Records of Emergency Release Reports***

| | |
|---|---|
| HMIRS | Hazardous Materials Information Reporting System |
| CHMIRS | California Hazardous Material Incident Report System |
| LDS | Land Disposal Sites Listing |
| MCS | Military Cleanup Sites Listing |
| Orange Co. Industrial Site | List of Industrial Site Cleanups |
| SPILLS 90 | SPILLS 90 data from FirstSearch |

***Other Ascertainable Records***

| | |
|---|---|
| FUDS | Formerly Used Defense Sites |
| DOD | Department of Defense Sites |
| SCRD DRYCLEANERS | State Coalition for Remediation of Drycleaners Listing |
| US FIN ASSUR | Financial Assurance Information |
| EPA WATCH LIST | EPA WATCH LIST |
| 2020 COR ACTION | 2020 Corrective Action Program List |
| TSCA | Toxic Substances Control Act |
| TRIS | Toxic Chemical Release Inventory System |
| SSTS | Section 7 Tracking Systems |
| ROD | Records Of Decision |
| RMP | Risk Management Plans |
| RAATS | RCRA Administrative Action Tracking System |
| PRP | Potentially Responsible Parties |
| PADS | PCB Activity Database System |
| ICIS | Integrated Compliance Information System |
| FTTS | FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) |
| MLTS | Material Licensing Tracking System |
| COAL ASH DOE | Steam-Electric Plant Operation Data |
| COAL ASH EPA | Coal Combustion Residues Surface Impoundments List |
| PCB TRANSFORMER | PCB Transformer Registration Database |
| RADINFO | Radiation Information Database |
| HIST FTTS | FIFRA/TSCA Tracking System Administrative Case Listing |
| DOT OPS | Incident and Accident Data |
| CONSENT | Superfund (CERCLA) Consent Decrees |
| INDIAN RESERV | Indian Reservations |
| FUSRAP | Formerly Utilized Sites Remedial Action Program |
| UMTRA | Uranium Mill Tailings Sites |
| LEAD SMELTERS | Lead Smelter Sites |
| US AIRS | Aerometric Information Retrieval System Facility Subsystem |
| US MINES | Mines Master Index File |
| ABANDONED MINES | Abandoned Mines |
| FINDS | Facility Index System/Facility Registry System |
| DOCKET HWC | Hazardous Waste Compliance Docket Listing |
| ECHO | Enforcement & Compliance History Information |
| UXO | Unexploded Ordnance Sites |

# EXECUTIVE SUMMARY

FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---------- Bond Expenditure Plan
CUPA Listings ---------- CUPA Resources List
EMI ---------- Emissions Inventory Data
ENF ---------- Enforcement Action Listing
Financial Assurance ---------- Financial Assurance Information Listing
HAZNET ---------- Facility and Manifest Data
ICE ---------- ICE
HWP ---------- EnviroStor Permitted Facilities Listing
HWT ---------- Registered Hazardous Waste Transporter Database
MINES ---------- Mines Site Location Listing
MWMP ---------- Medical Waste Management Program Listing
NPDES ---------- NPDES Permits Listing
PEST LIC ---------- Pesticide Regulation Licenses Listing
PROC ---------- Certified Processors Database
Notify 65 ---------- Proposition 65 Records
UIC ---------- UIC Listing
UIC GEO ---------- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---------- Oil Wastewater Pits Listing
WDS ---------- Waste Discharge System
WIP ---------- Well Investigation Program Case List
MILITARY PRIV SITES ---------- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---------- PROJECT (GEOTRACKER)
WDR ---------- Waste Discharge Requirements Listing
CIWQS ---------- California Integrated Water Quality System
CERS ---------- CERS
NON-CASE INFO ---------- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---------- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---------- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---------- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---------- Well Stimulation Project (GEOTRACKER)
MINES MRDS ---------- Mineral Resources Data System
HWTS ---------- Hazardous Waste Tracking System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

# EXECUTIVE SUMMARY

## STANDARD ENVIRONMENTAL RECORDS

### *Federal RCRA generators list*

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P***<br>EPA ID:: CAD983590571 | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DANNYS ONE HOUR PHOT***<br>EPA ID:: CAD981641202 | ***2323 N TUSTIN AVE*** | ***ENE 0 - 1/8 (0.081 mi.)*** | ***31*** | ***111*** |
| ***FRAZEE PAINT***<br>EPA ID:: CAD087377693 | ***2201 N TUSTIN AVENUE*** | ***SE 0 - 1/8 (0.115 mi.)*** | ***D43*** | ***153*** |
| ***FOOTHILL DRY CLEANER***<br>EPA ID:: CAD981454101 | ***2120 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.165 mi.)*** | ***H54*** | ***194*** |
| ***JIFFY LUBE***<br>EPA ID:: CAD983582867 | ***2015 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.222 mi.)*** | ***L77*** | ***262*** |
| ***MOTRA TRANSMISSIONS***<br>EPA ID:: CAD983596685 | ***2005 N TUSTIN AVE ST*** | ***SSE 1/8 - 1/4 (0.245 mi.)*** | ***L85*** | ***307*** |

### *State- and tribal - equivalent CERCLIS*

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 07/22/2021 has revealed that there are 7 ENVIROSTOR sites within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DANNY K CLEANERS (FO***<br>Facility Id: 60002324 | ***1941 N. TUSTIN AVENU*** | ***SSE 1/4 - 1/2 (0.274 mi.)*** | ***88*** | ***335*** |

| | | | | |
|---|---|---|---|---|
| Status: Certified O&M - Land Use Restrictions Only | | | | |
| ***FORMER DRY CLEANER,*** Facility Id: 60001948 Status: Active | ***NORTHEAST CORNER 17T*** | ***SSE 1/2 - 1 (0.549 mi.)*** | ***94*** | ***405*** |
| AZTEC CLEANERS Facility Id: 30720014 Status: Refer: 1248 Local Agency | 1730 EAST 17TH STREE | SW 1/2 - 1 (0.619 mi.) | 95 | 414 |
| ***TUSTIN'S FRENCH QUAR*** Facility Id: 60001388 Status: No Further Action | ***17301 17TH STREET*** | ***SE 1/2 - 1 (0.687 mi.)*** | ***96*** | ***415*** |
| CIRCUIT ONE (DIVISIO Facility Id: 30340300 Status: Refer: Other Agency | 2101 GRAND AVE | WSW 1/2 - 1 (0.871 mi.) | 97 | 418 |
| ACE CLEANERS Facility Id: 30720004 Status: Refer: 1248 Local Agency | 2525 NORTH GRAND AVE | WNW 1/2 - 1 (0.884 mi.) | 98 | 419 |
| ***WESTERN MEDICAL CTR*** Facility Id: 71002574 Status: Inactive - Needs Evaluation | ***1001 N TUSTIN*** | ***S 1/2 - 1 (0.908 mi.)*** | ***99*** | ***420*** |

***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 14 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***G&M OIL #12*** Database: LUST, Date of Government Version: 06/03/2021 Status: Completed - Case Closed Global Id: T0605901724 | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E36*** | ***130*** |
| ALLEN TIRE COMPANY Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Remedial action (cleanup) Underway Global ID: T0605901724 | 2401 TUSTIN AVE | NNE 0 - 1/8 (0.095 mi.) | E42 | 152 |
| ***SHELL SERVICE STATIO*** Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 06/03/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0605928372 Global Id: T0605901183 Global ID: T0605901183 | ***889 TUSTIN*** | ***N 1/4 - 1/2 (0.408 mi.)*** | ***N90*** | ***374*** |
| ***JASMINE'S SHELL*** Database: ORANGE CO. LUST, Date of Government Version: 03/01/2021 Facility Id: 98UT007 | ***889 S TUSTIN AVE*** | ***N 1/4 - 1/2 (0.408 mi.)*** | ***N91*** | ***380*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***E-Z SERVE*** Database: LUST REG 8, Date of Government Version: 02/14/2005 | ***2151 SANTA CLARA*** | ***ESE 0 - 1/8 (0.046 mi.)*** | ***C9*** | ***51*** |

Facility Status: Case Closed
Global ID: T0605900943

| | | | | |
|---|---|---|---|---|
| ***UNOCAL #5348*** | ***2301 TUSTIN AVE*** | ***ESE 0 - 1/8 (0.046 mi.)*** | ***C10*** | ***52*** |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0605901770

| | | | | |
|---|---|---|---|---|
| ***C & C UNOCAL 76*** | ***2301 N TUSTIN*** | ***E 0 - 1/8 (0.054 mi.)*** | ***C12*** | ***55*** |

Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0605901770

| | | | | |
|---|---|---|---|---|
| EXXON SERVICE STATIO | 2230 TUSTIN AVE | SSE 0 - 1/8 (0.078 mi.) | D25 | 104 |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Pollution Characterization
Global ID: T0605901213

| | | | | |
|---|---|---|---|---|
| ***EXXON SERVICE STATIO*** | ***2230 N TUSTIN*** | ***SSE 0 - 1/8 (0.078 mi.)*** | ***D27*** | ***106*** |

Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0605901213

| | | | | |
|---|---|---|---|---|
| ***LADD LIQUORS 9*** | ***2151 E SANTA CLARA A*** | ***E 0 - 1/8 (0.090 mi.)*** | ***C39*** | ***148*** |

Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0605900943

| | | | | |
|---|---|---|---|---|
| ORANGE COUNTY CEMETE | 1919 SANTA CLARA AVE | W 1/8 - 1/4 (0.125 mi.) | F48 | 181 |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0605999012

| | | | | |
|---|---|---|---|---|
| ***ORANGE COUNTY CEMETE*** | ***1919 E SANTA CLARA A*** | ***W 1/8 - 1/4 (0.125 mi.)*** | ***F49*** | ***182*** |

Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0605999012

| | | | | |
|---|---|---|---|---|
| ***BEACON BAY AUTO WASH*** | ***2035 TUSTIN AVE. N*** | ***SSE 1/8 - 1/4 (0.209 mi.)*** | ***L70*** | ***224*** |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Facility Status: Leak being confirmed
Global Id: T060598312
Global ID: T060598312

| | | | | |
|---|---|---|---|---|
| ***ARCO*** | ***13972 TUSTIN*** | ***SSE 1/4 - 1/2 (0.423 mi.)*** | ***M92*** | ***385*** |

Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0605900864
Global ID: T0605900864

# EXECUTIVE SUMMARY

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P*** | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |
| Database: UST, Date of Government Version: 06/03/2021<br>Facility Id: 30-020-sa194 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| BEACON BAY AUTO WASH | 2035 N. TUSTIN AVE. | SSE 1/8 - 1/4 (0.209 mi.) | L71 | 227 |
| Database: UST, Date of Government Version: 06/03/2021<br>Facility Id: 30-020-sa0477 | | | | |

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| 675 SANTA ANA AREA | 2031 EAST SANTA CLAR | W 0 - 1/8 (0.041 mi.) | A5 | 21 |
| Database: AST, Date of Government Version: 07/06/2016 | | | | |

***State and tribal voluntary cleanup sites***

VCP: Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

A review of the VCP list, as provided by EDR, and dated 07/22/2021 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DANNY K CLEANERS (FO*** | ***1941 N. TUSTIN AVENU*** | ***SSE 1/4 - 1/2 (0.274 mi.)*** | ***88*** | ***335*** |
| Status: Certified O&M - Land Use Restrictions Only<br>Facility Id: 60002324 | | | | |

# EXECUTIVE SUMMARY

## ADDITIONAL ENVIRONMENTAL RECORDS

### *Local Lists of Hazardous waste / Contaminated Sites*

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 07/15/2021 has revealed that there are 7 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***STATER BROS. MARKETS*** | ***2360 N TUSTIN AVE*** | ***NNE 0 - 1/8 (0.026 mi.)*** | ***B2*** | ***11*** |
| ***CALIFORNIA HIGHWAY P*** | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |
| ***ALLEN TIRE COMPANY 1*** | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E37*** | ***133*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***SHERWIN-WILLIAMS #15*** | ***2201 N TUSTIN AVE*** | ***SE 0 - 1/8 (0.115 mi.)*** | ***D45*** | ***163*** |
| ***JIFFY LUBE #1303*** | ***2025 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.219 mi.)*** | ***L72*** | ***227*** |
| ***AUTOCARE EXPRESS INC*** | ***2015 N TUSTIN AVE ST*** | ***SSE 1/8 - 1/4 (0.222 mi.)*** | ***L75*** | ***253*** |
| ***TUSTIN AVE AUTOPLEX*** | ***2005 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.245 mi.)*** | ***L87*** | ***319*** |

PFAS: A listing of PFAS contaminated sites included in the GeoTracker database.

A review of the PFAS list, as provided by EDR, and dated 06/04/2021 has revealed that there are 2 PFAS sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FAIRHAVEN WELL 3 | | NE 1/4 - 1/2 (0.438 mi.) | 93 | 388 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| TUSTIN AVENUE | | SSE 1/4 - 1/2 (0.398 mi.) | M89 | 340 |

### *Local Lists of Registered Storage Tanks*

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 11 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P***<br>Status: A<br>Tank Status: A | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |

| | | | | |
|---|---|---|---|---|
| Comp Number: 194 | | | | |
| ***G&M OIL CO #12*** | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E34*** | ***117*** |
| Status: A<br>Tank Status: A<br>Comp Number: 52506 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***UNION OIL SERVICE ST*** | ***2301 N TUSTIN AVENUE*** | ***E 0 - 1/8 (0.054 mi.)*** | ***C14*** | ***59*** |
| Status: A<br>Comp Number: 224 | | | | |
| EXXON SERVICE STATIO | 2230 N TUSTIN AVE | SSE 0 - 1/8 (0.078 mi.) | D26 | 105 |
| Status: A<br>Tank Status: A<br>Comp Number: 23992 | | | | |
| EXXON SERVICE STATIO | 2230 N TUSTIN AVE | SSE 0 - 1/8 (0.078 mi.) | D29 | 109 |
| Comp Number: 23992 | | | | |
| ***LADD LIQUORS #9*** | ***2151 E SANTA CLARA A*** | ***E 0 - 1/8 (0.090 mi.)*** | ***C40*** | ***151*** |
| Status: A<br>Tank Status: A<br>Comp Number: 11213 | | | | |
| ***FRAZEE PAINT*** | ***2201 N TUSTIN AVENUE*** | ***SE 0 - 1/8 (0.115 mi.)*** | ***D43*** | ***153*** |
| Comp Number: 222 | | | | |
| ***SANTA ANA CEMETERY*** | ***1919 E SANTA CLARA A*** | ***W 1/8 - 1/4 (0.125 mi.)*** | ***F50*** | ***185*** |
| Status: A<br>Tank Status: A<br>Comp Number: 32388 | | | | |
| CARL & LENA KLATT TR | 2102 N TUSTIN AVE | S 1/8 - 1/4 (0.166 mi.) | H58 | 202 |
| Comp Number: 492 | | | | |
| ***SPEEDIE CLEAN $5 IN*** | ***2035 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.209 mi.)*** | ***L69*** | ***223*** |
| Status: A<br>Tank Status: A<br>Comp Number: 477 | | | | |
| ***BRAKE EXPRESS*** | ***2015 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.222 mi.)*** | ***L79*** | ***274*** |
| Comp Number: 43009 | | | | |

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 11 HIST UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P*** | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |
| Facility Id: 00000035438 | | | | |
| CALIFORNIA HIGHWAY P | 2031 E SANTA CLARA A | W 0 - 1/8 (0.041 mi.) | A8 | 50 |
| Facility Id: 00000017992 | | | | |
| ***FRED ALLEN ENTERPRIS*** | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E35*** | ***119*** |
| ***G&M OIL #12*** | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E36*** | ***130*** |
| Facility Id: 00000052506 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STATION #5348 | 2301 N TUSTIN AVE | E 0 - 1/8 (0.054 mi.) | C11 | 54 |

| | | | | |
|---|---|---|---|---|
| Facility Id: 00000043673 | | | | |
| ***UNION OIL SERVICE ST*** Facility Id: 00000019941 | ***2301 N TUSTIN AVENUE*** | ***E 0 - 1/8 (0.054 mi.)*** | ***C14*** | ***59*** |
| EXXON SERVICE STATIO Facility Id: 00000023992 | 2230 N TUSTIN | SSE 0 - 1/8 (0.078 mi.) | D28 | 108 |
| ***LADD LIQUORS 9*** Facility Id: 00000011213 | ***2151 E SANTA CLARA A*** | ***E 0 - 1/8 (0.090 mi.)*** | ***C39*** | ***148*** |
| ***FRAZEE PAINT*** Facility Id: 00000007426 | ***2201 N TUSTIN AVENUE*** | ***SE 0 - 1/8 (0.115 mi.)*** | ***D43*** | ***153*** |
| ***ORANGE COUNTY CEMETE*** Facility Id: 00000032388 | ***1919 E SANTA CLARA A*** | ***W 1/8 - 1/4 (0.125 mi.)*** | ***F49*** | ***182*** |
| ***BRAKE EXPRESS*** Facility Id: 00000043009 | ***2015 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.222 mi.)*** | ***L79*** | ***274*** |

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 07/15/2021 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P*** | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***JIFFY LUBE #1303*** | ***2025 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.219 mi.)*** | ***L72*** | ***227*** |

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 9 CA FID UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CALIFORNIA HIGHWAY P*** Facility Id: 30010158 Status: A | ***2031 E SANTA CLARA*** | ***W 0 - 1/8 (0.041 mi.)*** | ***A6*** | ***22*** |
| ***G&M OIL CO #12*** Facility Id: 30011094 Status: A | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E34*** | ***117*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***C & C UNOCAL 76*** Facility Id: 30012041 Status: A | ***2301 N TUSTIN*** | ***E 0 - 1/8 (0.054 mi.)*** | ***C12*** | ***55*** |
| ***EXXON SERVICE STATIO*** Facility Id: 30001056 | ***2230 N TUSTIN*** | ***SSE 0 - 1/8 (0.078 mi.)*** | ***D27*** | ***106*** |

| | | | | |
|---|---|---|---|---|
| Status: A | | | | |
| ***LADD LIQUORS #9*** Facility Id: 30006945 Status: A | ***2151 E SANTA CLARA A*** | ***E 0 - 1/8 (0.090 mi.)*** | ***C40*** | ***151*** |
| ***FRAZEE PAINT*** Facility Id: 30008816 Status: A | ***2201 N TUSTIN AVENUE*** | ***SE 0 - 1/8 (0.115 mi.)*** | ***D43*** | ***153*** |
| ***SANTA ANA CEMETERY*** Facility Id: 30017854 Status: A | ***1919 E SANTA CLARA A*** | ***W 1/8 - 1/4 (0.125 mi.)*** | ***F50*** | ***185*** |
| ***SPEEDIE CLEAN $5 IN*** Facility Id: 30017813 Status: A | ***2035 N TUSTIN AVE*** | ***SSE 1/8 - 1/4 (0.209 mi.)*** | ***L69*** | ***223*** |
| BEACON BAY AUTO WASH Facility Id: 30003974 Status: I | 2015 N TUSTIN | SSE 1/8 - 1/4 (0.222 mi.) | L76 | 262 |

### *Local Land Records*

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 05/28/2021 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DANNY K CLEANERS (FO*** Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 60002324 | ***1941 N. TUSTIN AVENU*** | ***SSE 1/4 - 1/2 (0.274 mi.)*** | ***88*** | ***335*** |

### *Other Ascertainable Records*

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 30 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| STATER BROS MARKETS EPA ID:: CAL000340299 | 2360 N TUSTIN AVE | NNE 0 - 1/8 (0.026 mi.) | B3 | 16 |
| CALIFORNIA HIGHWAY P EPA ID:: CAL000046160 | 2031 E SANTA CLARA A | W 0 - 1/8 (0.041 mi.) | A7 | 47 |
| CANYON CREST CLEANER | 2380 N TUSTIN AVE ST | NNE 0 - 1/8 (0.077 mi.) | B23 | 101 |

| | | | | |
|---|---|---|---|---|
| EPA ID:: CAL000365761 | | | | |
| ALLEN TIRE CO 1694 | 2401 N TUSTIN AVE | NE 0 - 1/8 (0.088 mi.) | E32 | 114 |
| FRED ALLEN ENTERPRIS | 2401 N TUSTIN AVE | NE 0 - 1/8 (0.088 mi.) | E38 | 145 |
| EPA ID:: CAL912912940 | | | | |
| THE BASCOM GROUP LLC | 2414 N. TUSTIN AVE. | NNE 1/8 - 1/4 (0.137 mi.) | G51 | 186 |
| EPA ID:: CAC002980908 | | | | |
| THE BASCOM GROUP LLC | 2414 N. TUSTIN AVE. | NNE 1/8 - 1/4 (0.137 mi.) | G52 | 189 |
| EPA ID:: CAC003024528 | | | | |
| MICHELLE BELACIC | 2244 FRANZEN AVE | ENE 1/8 - 1/4 (0.222 mi.) | 80 | 295 |
| JEFF LEDON | 2530 N TUSTIN #119 U | N 1/8 - 1/4 (0.244 mi.) | 82 | 300 |
| EPA ID:: CAC002980377 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ALBERTO RODRIGUEZ | 2026 EAST SANTA CLAR | SW 0 - 1/8 (0.022 mi.) | A1 | 9 |
| EPA ID:: CAC002969927 | | | | |
| THE VILLAGE AT ORANG | 2300 N. TUSTIN AVENU | E 0 - 1/8 (0.029 mi.) | B4 | 18 |
| SB JOO INC | 2239 N TUSTIN AVE | SE 0 - 1/8 (0.076 mi.) | D15 | 62 |
| EPA ID:: CAL000398615 | | | | |
| SHERIN WILLIAMS #153 | 2201 N TUSTIN AVE | SE 0 - 1/8 (0.115 mi.) | D44 | 161 |
| EPA ID:: CAL000396228 | | | | |
| FRAZEE ENTERPRISES L | 2201 N. TUSTIN AVE. | SE 0 - 1/8 (0.115 mi.) | D46 | 176 |
| DANE VALDEZ | 2202 E. BUFFALO AVE | SE 0 - 1/8 (0.120 mi.) | D47 | 178 |
| MATT REEVES | 2141 N TUSTIN AVE | SSE 1/8 - 1/4 (0.150 mi.) | H53 | 191 |
| BEVERLY MAYO | 2113 CATALINA AVENUE | SSW 1/8 - 1/4 (0.170 mi.) | I59 | 202 |
| GEORGE BARNET | 2210 EAST AVALON | SE 1/8 - 1/4 (0.172 mi.) | 63 | 208 |
| EPA ID:: CAC002985143 | | | | |
| MARTHA WORALL | 1913 E. AVALON AVENU | WSW 1/8 - 1/4 (0.175 mi.) | J64 | 210 |
| KATELYN FINLEY | 1918 E. AVALON AVENU | WSW 1/8 - 1/4 (0.180 mi.) | J65 | 213 |
| STEVE BOWERS | 2118 CATALINA AVE | S 1/8 - 1/4 (0.194 mi.) | I66 | 215 |
| LANELL O'NEILL | 2217 PASADENA ST | ESE 1/8 - 1/4 (0.204 mi.) | K67 | 218 |
| LANELL O?NEILL | 2217 PASADENA ST, | ESE 1/8 - 1/4 (0.204 mi.) | K68 | 220 |
| JJJZ, INC. DBA JIFFY | 2025 N TUSTIN AVE | SSE 1/8 - 1/4 (0.219 mi.) | L73 | 247 |
| EPA ID:: CAL000265785 | | | | |
| JIFFY LUBE #1303 | 2025 N TUSTIN AVE | SSE 1/8 - 1/4 (0.219 mi.) | L74 | 250 |
| EPA ID:: CAL000438271 | | | | |
| AUTOCARE EXPRESS INC | 2015 N TUSTIN AVE ST | SSE 1/8 - 1/4 (0.222 mi.) | L78 | 271 |
| EPA ID:: CAL000326149 | | | | |
| SCOTT ASHLOCK | 1902 E. AVALON AVENU | WSW 1/8 - 1/4 (0.228 mi.) | J81 | 297 |
| FIRESTONE COMPLETE A | 2005 N TUSTIN AVE ST | SSE 1/8 - 1/4 (0.245 mi.) | L83 | 302 |
| EPA ID:: CAL000365689 | | | | |
| MO'S GARAGE | 2005 N TUSTIN AVE | SSE 1/8 - 1/4 (0.245 mi.) | L84 | 305 |
| EPA ID:: CAL000361247 | | | | |
| SADDLEBACK AUTOMOTIV | 2005 N TUSTIN AVE | SSE 1/8 - 1/4 (0.245 mi.) | L86 | 316 |
| EPA ID:: CAL000095367 | | | | |

# EXECUTIVE SUMMARY

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 06/17/2021 has revealed that there are 8 Cortese sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***G&M OIL #12*** | ***2401 N TUSTIN AVE*** | ***NE 0 - 1/8 (0.088 mi.)*** | ***E36*** | ***130*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***SHELL SERVICE STATIO*** | ***889 TUSTIN*** | ***N 1/4 - 1/2 (0.408 mi.)*** | ***N90*** | ***374*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***C & C UNOCAL 76*** | ***2301 N TUSTIN*** | ***E 0 - 1/8 (0.054 mi.)*** | ***C12*** | ***55*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***EXXON SERVICE STATIO*** | ***2230 N TUSTIN*** | ***SSE 0 - 1/8 (0.078 mi.)*** | ***D27*** | ***106*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***LADD LIQUORS 9*** | ***2151 E SANTA CLARA A*** | ***E 0 - 1/8 (0.090 mi.)*** | ***C39*** | ***148*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***ORANGE COUNTY CEMETE*** | ***1919 E SANTA CLARA A*** | ***W 1/8 - 1/4 (0.125 mi.)*** | ***F49*** | ***182*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***BEACON BAY AUTO WASH*** | ***2035 TUSTIN AVE. N*** | ***SSE 1/8 - 1/4 (0.209 mi.)*** | ***L70*** | ***224*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |
| ***ARCO*** | ***13972 TUSTIN*** | ***SSE 1/4 - 1/2 (0.423 mi.)*** | ***M92*** | ***385*** |
| Cleanup Status: COMPLETED - CASE CLOSED | | | | |

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there are 12 DRYCLEANERS sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***CANYON CREST CLEANER*** | ***2380 N TUSTIN AVE*** | ***NNE 0 - 1/8 (0.077 mi.)*** | ***B20*** | ***78*** |
| Database: DRYCLEANERS, Date of Government Version: 05/25/2021<br>EPA Id: CAL000156906 | | | | |
| CANYON CREST CLEANER | 2380 N TUSTIN AVE UN | NNE 0 - 1/8 (0.077 mi.) | B22 | 99 |
| Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | | | | |
| CANYON CREST CLEANER | 2380 N TUSTIN AVE UN | NNE 0 - 1/8 (0.077 mi.) | B24 | 103 |
| Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***DANNY'S DRY CLEANERS*** | ***2239 N TUSTIN AVE*** | ***SE 0 - 1/8 (0.076 mi.)*** | ***D17*** | ***65*** |
| Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021<br>Database: DRYCLEANERS, Date of Government Version: 05/25/2021<br>EPA Id: CAL000398615 | | | | |
| DANNY'S CLEANERS | 2239 N TUSTIN AVE | SE 0 - 1/8 (0.076 mi.) | D18 | 76 |
| Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DANNY'S DRY CLEANERS<br>Database: DRYCLEANERS, Date of Government Version: 05/25/2021<br>EPA Id: CAL000294409 | 2239 N TUSTIN AVE | SE 0 - 1/8 (0.076 mi.) | D19 | 77 |
| FOOTHILL CLEANERS<br>Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | 2120 N TUSTIN AVE | SSE 1/8 - 1/4 (0.165 mi.) | H55 | 200 |
| FOOTHILL CLEANERS<br>Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | 2120 N TUSTIN | SSE 1/8 - 1/4 (0.165 mi.) | H56 | 201 |
| FOOTHILL CLEANERS<br>Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | 2120 N TUSTIN AVE | SSE 1/8 - 1/4 (0.165 mi.) | H57 | 201 |
| WHITE HORSE CLEANERS<br>Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | 2112 N TUSTIN AVE | SSE 1/8 - 1/4 (0.170 mi.) | H60 | 205 |
| WHITE HORSE CLEANERS<br>Database: DRYCLEAN SOUTH COAST, Date of Government Version: 05/18/2021 | 2112 N TUSTIN AVE | SSE 1/8 - 1/4 (0.170 mi.) | H61 | 206 |
| WHITE HORSE CLEANERS<br>Database: DRYCLEANERS, Date of Government Version: 05/25/2021<br>EPA Id: CAL000297041<br>EPA Id: CAL000322460 | 2112 N TUSTIN AVE | SSE 1/8 - 1/4 (0.170 mi.) | H62 | 206 |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***E-Z SERVE***<br>Reg Id: 083001207T | ***2151 SANTA CLARA*** | ***ESE 0 - 1/8 (0.046 mi.)*** | ***C9*** | ***51*** |
| ***ARCO***<br>Reg Id: 083001094T | ***13972 TUSTIN*** | ***SSE 1/4 - 1/2 (0.423 mi.)*** | ***M92*** | ***385*** |

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 4 EDR Hist Auto

sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ALLEN FRED ENTERPRIS | 2401 N TUSTIN AVE | NE 0 - 1/8 (0.088 mi.) | E33 | 116 |
| ALLEN TIRE CO INC | 2401 TUSTIN AVE | NNE 0 - 1/8 (0.095 mi.) | E41 | 152 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| C&C UNOCAL 76 | 2301 N TUSTIN AVE | E 0 - 1/8 (0.054 mi.) | C13 | 59 |
| RICHMOND EDWARD | 2230 N TUSTIN | SSE 0 - 1/8 (0.078 mi.) | D30 | 110 |

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| KING & CREST | 2380 N TUSTIN AV | NNE 0 - 1/8 (0.077 mi.) | B21 | 98 |

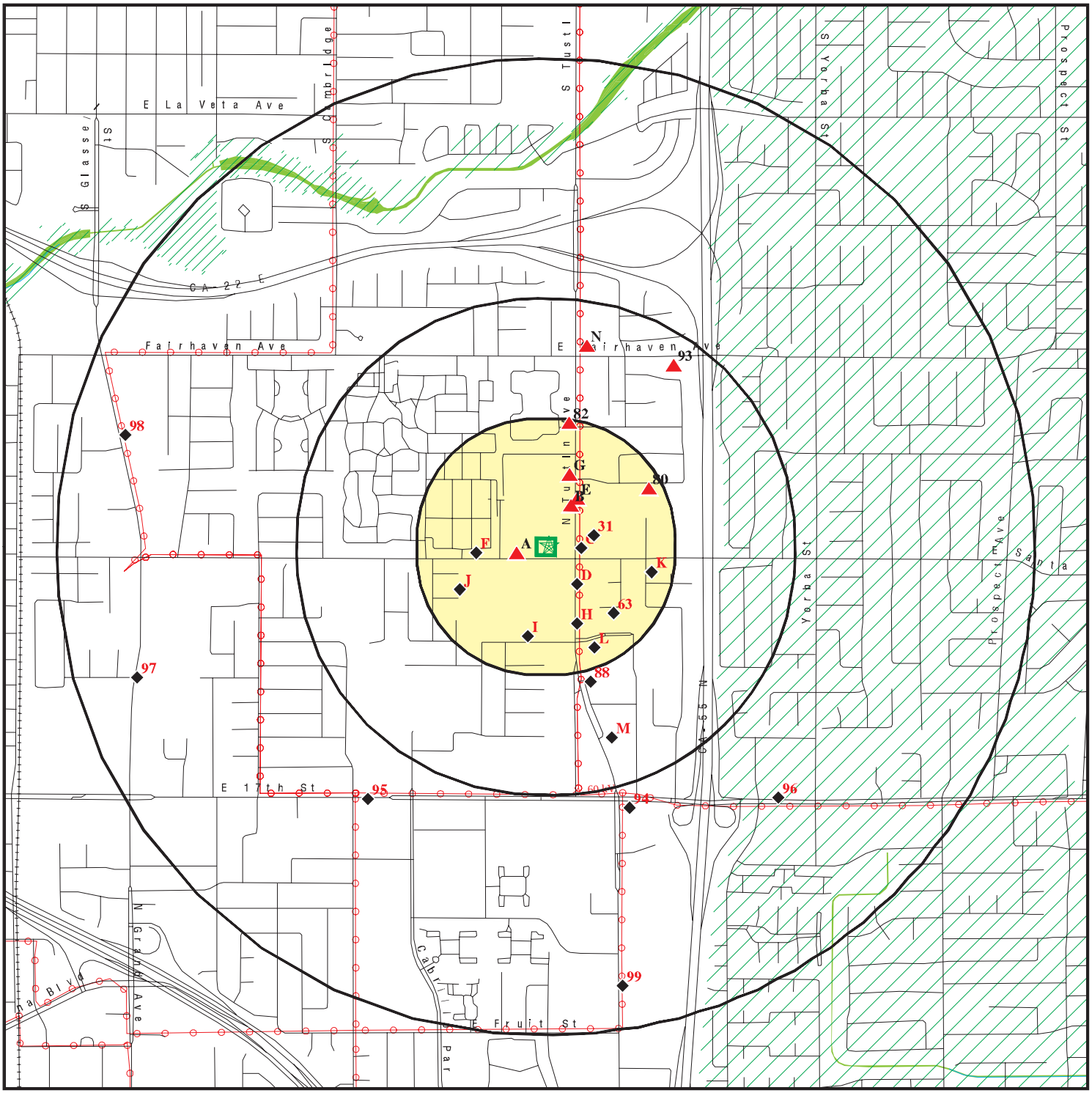
| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| DANNYS CLEANERS | 2239 N TUSTIN AVE | SE 0 - 1/8 (0.076 mi.) | D16 | 64 |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

| Site Name | Database(s) |
|---|---|
| SANTA ANA VALLEY IRRIGATION DUMP # | CERS |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| SANTA ANA COUNTRY CLUB MAINTENANCE | RGA LUST |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| SANTA ANA COUNTRY CLUB | RGA LUST |
| HONEYWELL | LUST, HIST CORTESE |
| LEWIS CLEANERS | DRYCLEANERS |
| DANNY'S CLEANERS | DRYCLEANERS |
| ANAHEIM CITY DUMP #7 | SWF/LF |
| ORANGE #4/CANAL ST/NEWKIRK LF | SWF/LF |
| JEFFERY ROAD ROCK PLANT | SWF/LF |
| ORANGE CITY DUMP #4 | SWF/LF |
| FOSTER SAND & GRAVEL | SWF/LF |
| SHELL STATION | LUST |
| ARCO | LUST, HIST UST |
| SANTA ANA CITY | WMUDS/SWAT |
| SANTA ANA VALLEY IRRIGATION DUMP # | RGA LF |

# OVERVIEW MAP - 6703026.2S




0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | | | |
|---|---|---|---|
| SITE NAME: | Mcdonalds Santa Ana | CLIENT: | Universal Engineering Sciences |
| ADDRESS: | 2109 E Santa Clara Avenue<br>Santa Ana CA 92705 | CONTACT: | Alexia Mackey |
| | | INQUIRY #: | 6703026.2s |
| LAT/LONG: | 33.767502 / 117.836719 | DATE: | October 14, 2021 8:45 am |

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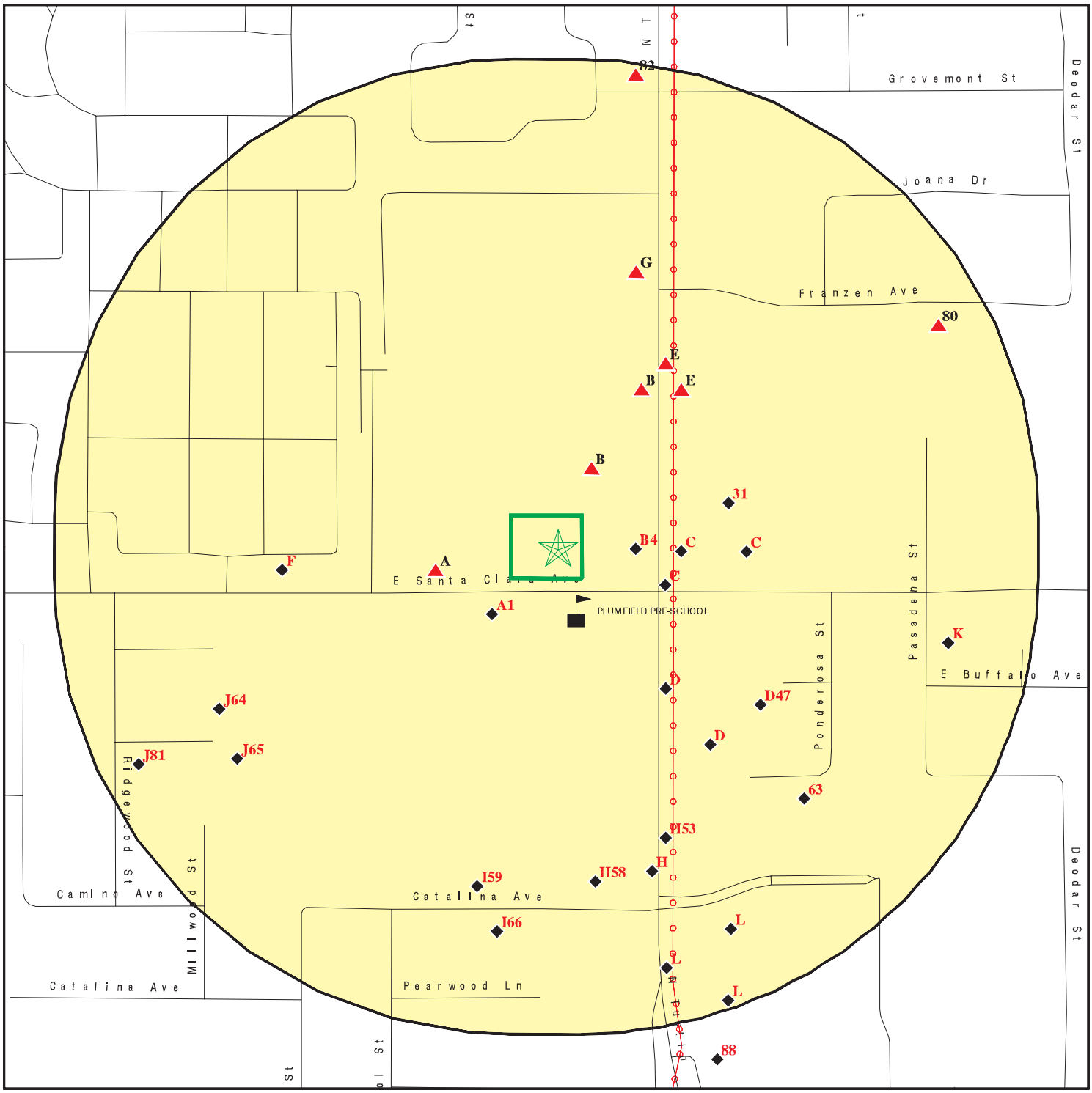
# DETAIL MAP - 6703026.2S




Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Mcdonalds Santa Ana | CLIENT: Universal Engineering Sciences |
| ADDRESS: 2109 E Santa Clara Avenue<br>Santa Ana CA 92705 | CONTACT: Alexia Mackey<br>INQUIRY #: 6703026.2s |
| LAT/LONG: 33.767502 / 117.836719 | DATE: October 14, 2021 8:46 am |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 3 | 3 | NR | NR | NR | 6 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | TP | | NR | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 1 | 6 | NR | 7 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 8 | 3 | 3 | NR | NR | 14 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| AST | 0.250 | | 1 | 0 | NR | NR | NR | 1 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| VCP | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| HAULERS | TP | | NR | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | TP | | NR | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | TP | | NR | NR | NR | NR | NR | 0 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| CERS HAZ WASTE | 0.250 | | 4 | 3 | NR | NR | NR | 7 |
| US CDL | TP | | NR | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 2 | NR | NR | 2 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 7 | 4 | NR | NR | NR | 11 |
| HIST UST | 0.250 | | 9 | 2 | NR | NR | NR | 11 |
| CERS TANKS | 0.250 | | 1 | 1 | NR | NR | NR | 2 |
| CA FID UST | 0.250 | | 6 | 3 | NR | NR | NR | 9 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | TP | | NR | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LIENS 2 | TP | | NR | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| CHMIRS | TP | | NR | NR | NR | NR | NR | 0 |
| LDS | TP | | NR | NR | NR | NR | NR | 0 |
| MCS | TP | | NR | NR | NR | NR | NR | 0 |
| Orange Co. Industrial Site | TP | | NR | NR | NR | NR | NR | 0 |
| SPILLS 90 | TP | | NR | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 11 | 19 | NR | NR | NR | 30 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | TP | | NR | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | TP | | NR | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | TP | | NR | NR | NR | NR | NR | 0 |
| TRIS | TP | | NR | NR | NR | NR | NR | 0 |
| SSTS | TP | | NR | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | TP | | NR | NR | NR | NR | NR | 0 |
| RAATS | TP | | NR | NR | NR | NR | NR | 0 |
| PRP | TP | | NR | NR | NR | NR | NR | 0 |
| PADS | TP | | NR | NR | NR | NR | NR | 0 |
| ICIS | TP | | NR | NR | NR | NR | NR | 0 |
| FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| MLTS | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH DOE | TP | | NR | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | TP | | NR | NR | NR | NR | NR | 0 |
| RADINFO | TP | | NR | NR | NR | NR | NR | 0 |
| HIST FTTS | TP | | NR | NR | NR | NR | NR | 0 |
| DOT OPS | TP | | NR | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | TP | | NR | NR | NR | NR | NR | 0 |
| US AIRS | TP | | NR | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | TP | | NR | NR | NR | NR | NR | 0 |
| DOCKET HWC | TP | | NR | NR | NR | NR | NR | 0 |
| ECHO | TP | | NR | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 4 | 2 | 2 | NR | NR | 8 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| DRYCLEANERS | 0.250 | | 6 | 6 | NR | NR | NR | 12 |
| EMI | TP | | NR | NR | NR | NR | NR | 0 |
| ENF | TP | | NR | NR | NR | NR | NR | 0 |
| Financial Assurance | TP | | NR | NR | NR | NR | NR | 0 |
| HAZNET | TP | | NR | NR | NR | NR | NR | 0 |
| ICE | TP | | NR | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 1 | 0 | 1 | NR | NR | 2 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | TP | | NR | NR | NR | NR | NR | 0 |
| PEST LIC | TP | | NR | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UIC | TP | | NR | NR | NR | NR | NR | 0 |
| UIC GEO | TP | | NR | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | TP | | NR | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MILITARY PRIV SITES | TP | | NR | NR | NR | NR | NR | 0 |
| PROJECT | TP | | NR | NR | NR | NR | NR | 0 |
| WDR | TP | | NR | NR | NR | NR | NR | 0 |
| CIWQS | TP | | NR | NR | NR | NR | NR | 0 |
| CERS | TP | | NR | NR | NR | NR | NR | 0 |
| NON-CASE INFO | TP | | NR | NR | NR | NR | NR | 0 |
| OTHER OIL GAS | TP | | NR | NR | NR | NR | NR | 0 |
| PROD WATER PONDS | TP | | NR | NR | NR | NR | NR | 0 |
| SAMPLING POINT | TP | | NR | NR | NR | NR | NR | 0 |
| WELL STIM PROJ | TP | | NR | NR | NR | NR | NR | 0 |
| MINES MRDS | TP | | NR | NR | NR | NR | NR | 0 |
| HWTS | TP | | NR | NR | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 4 | NR | NR | NR | NR | 4 |
| EDR Hist Cleaner | 0.125 | | 2 | NR | NR | NR | NR | 2 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | TP | | NR | NR | NR | NR | NR | 0 |
| RGA LUST | TP | | NR | NR | NR | NR | NR | 0 |
| - Totals -- | | 0 | 68 | 47 | 11 | 6 | 0 | 132 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**A1 SW < 1/8 0.022 mi. 118 ft.** | **ALBERTO RODRIGUEZ**
**2026 EAST SANTA CLARA AVE UNIT C4**
**SANTA ANA, CA 92705**
**Site 1 of 5 in cluster A** | **RCRA NonGen / NLR** | **1024750139**
**CAC002969927**

**Relative: Lower**
**Actual: 192 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20180709 |
| Handler Name: | ALBERTO RODRIGUEZ | |
| Handler Address: | | 2026 EAST SANTA CLARA AVE UNIT C4 |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-7861 |
| EPA ID: | | CAC002969927 |
| Contact Name: | | ALBERTO RODRIGUEZ |
| Contact Address: | | 2026 EAST SANTA CLARA AVE UNIT C4 |
| Contact City,State,Zip: | | SANTA ANA, CA 92705-7861 |
| Contact Telephone: | | 714-492-4451 |
| Contact Fax: | | Not reported |
| Contact Email: | | GENEVADEGUIRE@ALLIANCE-ENVIRO.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2026 EAST SANTA CLARA AVE UNIT C4 |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705-7861 |
| Owner Name: | | ALBERTO RODRIGUEZ |
| Owner Type: | | Other |
| Operator Name: | | ALBERTO RODRIGUEZ |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**ALBERTO RODRIGUEZ (Continued)** **1024750139**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | ALBERTO RODRIGUEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2026 EAST SANTA CLARA AVE UNIT C4 |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7861 |
| Owner/Operator Telephone: | 714-492-4451 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | ALBERTO RODRIGUEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2026 EAST SANTA CLARA AVE UNIT C4 |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7861 |
| Owner/Operator Telephone: | 714-492-4451 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**ALBERTO RODRIGUEZ (Continued)** **1024750139**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20180709 |
| Handler Name: | ALBERTO RODRIGUEZ |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**B2** **STATER BROS. MARKETS 040** **CERS HAZ WASTE** **S107136913**
**NNE** **2360 N TUSTIN AVE** **CERS** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.026 mi.**
**139 ft.** **Site 1 of 8 in cluster B**

**Relative:**
**Higher**

**Actual:**
**194 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | STATER BROS. MARKETS 040 |
| Address: | 2360 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 157070 |
| CERS ID: | 10571947 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | STATER BROS. MARKETS 040 |
| Address: | 2360 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 157070 |
| CERS ID: | 10571947 |
| CERS Description: | Chemical Storage Facilities |

Evaluation:

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-31-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed CERS submittals - updated EC records to current information |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**STATER BROS. MARKETS 040 (Continued)** **S107136913**

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. This facility is owned by Stater Bros Markets and currently has 69 employees. Walked throughout the facility and observed the hazardous waste storage area(s). This facility currently generates the following hazardous waste: - Waste medications (2 x 5-gallon containers) Hazardous waste storage areas are inspected daily by staff. The emergency response plan was available on site. No hazardous waste or universal waste was observed in the dumpster at the time of the inspection. Hazardous waste containers were closed and properly labeled. Employees are familiar with hazardous waste handling and emergency procedures. A copy of this inspection report will be sent to: - Eric Baird, Store Manager <store0040@staterbros.com> - Chris Ramirez of Stater Bros Markets <chris.ramirez@staterbros.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 2016 submittal CERS review: Facility filing for battery electrolyte at just under 55 gallons combined in 2 different battery systems
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for routine hazardous materials and Hazardous Materials Business Emergency Plan (HMBEP) inspection. Consent to enter and conduct inspection activities was provided by Nestor Alfaro, Store Manager. Observed the facility and inspected hazardous materials storage. Disclosure thresholds for the HMBEP program are 55 gallons of a liquid, 500 pounds of a solid or 200 cubic feet of a compressed gas. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: -R22, over 1000 cubic feet in closed refrigerated system -R-134a, over 1000 cubic feet in closed refrigerated system HMBEP is on site and available for review. HMBEP has been submitted through the California Environmental Reporting System (CERS). Annual employee safety training records were available and reviewed. The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-25-2014
Violations Found: No

**STATER BROS. MARKETS 040 (Continued)** **S107136913**

| | |
|---|---|
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | DECLINED the 7/02/2013 electronic submittal for the following reasons regarding the Hazardous Materials Inventory forms: -G PyroChemG G the Maximum Daily Amount reported, 5.0 gallons, does not meet or exceed the minimum quantity for disclosure of 55 gallons (for a liquid); therefore, this material should not be disclosed. -G Vegetable Oil G Soybean oil, Cooking OilG G the Maximum Daily Amount reported, 25.2 gallons, does not meet or exceed the minimum quantity for disclosure of 55 gallons (for a liquid); therefore, this material should not be disclosed. -G Sealed Lead Acid BatteryG G Please input the following information for lead-acid batteries: CHEMICAL NAME: (leave this blank); COMMON NAME: Lead Acid Batteries; PHYSICAL STATE: Liquid; HAZARDOUS MATERIAL TYPE: Mixture; FIRE CODE HAZARD CLASSES: Corrosive; FEDERAL HAZARD CATEGORIES: YES-Acute Health, YES-Chronic Health; MIXTURE COMPONENTS: Sulfuric Acid CAS # 7664-93-9, 40% by weight, EHS-Yes. Note that lead acid [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-10-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspection reports were returned to this agency by postal service. Inspection reports were hand delivered and mailing address verified. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-10-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for routine hazardous materials and business emergency plan inspection. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Refrigerant gases The facility is responsible for identifying all hazardous materials, and to include hazardous wastes, which are above disclosure thresholds (55 gallons of a liquid, 500 pounds of a solid, 200 cubic feet of a compressed gas). If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Environmental Reporting System (CERS) located at http://cers.calepa.ca.gov/. A copy of this inspection report will be sent to: - Eric Baird, Store Manager <store0040@staterbros.com> - Chris Ramirez of Stater Bros Markets [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-14-2017 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |

**STATER BROS. MARKETS 040 (Continued)** **S107136913**

Eval Notes: Staterbros Markets 040 2360 N Tustin Ave. Santa Ana, CA 92705 INSPECTOR COMMENTS: On site for a new generator hazardous waste inspection. Consent to enter and conduct inspection activities was provided by Nestor Alfaro, Store Manager. Business ownership information was verified. The current number of employees is 77. Walked throughout the facility. Observed hazardous waste storage area. Facility generates returned and expired over the counter medications. Observed two, five gallon buckets. Containers were closed and properly labeled. Facility has not yet had a hazardous waste pick up. According to Nestor, they have only generated the two five gallon buckets since the store opened in 2009. Accumulation times discussed in detail. Employees are reported to be trained. Emergency plan is posted in managers office. A perimeter walk was conducted and the dumpster enclosure was observed. No evidence of illegal dumping were noted. No hazardous waste [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-16-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Submission under review.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 157070
Facility Name: Stater Bros. Markets 040
Env Int Type Code: HWG
Program ID: 10571947
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.768090
Longitude: -117.837060

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Chris Ramirez
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Stater Bros. Markets 040
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

**STATER BROS. MARKETS 040 (Continued)** **S107136913**

| | |
|---|---|
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (909) 733-5000 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Chris Ramirez |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 150 |
| Affiliation City: | San Bernardino |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92408 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2360 No. Tustin Avenue |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Stater Bros. Markets |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 150 |
| Affiliation City: | San Bernardino |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92408 |
| Affiliation Phone: | (909) 733-5000 |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Chris Ramirez |
| Entity Title: | Supervisor of Support Services |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Stater Bros. Markets |
| Entity Title: | Not reported |
| Affiliation Address: | P.O. Box 150 |

**STATER BROS. MARKETS 040 (Continued)** **S107136913**

| | |
|---|---|
| Affiliation City: | San Bernardino |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92408 |
| Affiliation Phone: | (909) 733-5000 |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Stater Bros. Markets |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**B3** **STATER BROS MARKETS # 40 SANTA CLARA** **RCRA NonGen / NLR** **1024822334**
**NNE** **2360 N TUSTIN AVE** **CAL000340299**
**< 1/8** **SANTA ANA, CA 92705**
**0.026 mi.**
**139 ft.** **Site 2 of 8 in cluster B**

**Relative:**
**Higher**

**Actual:**
**194 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20090203 |
| Handler Name: | STATER BROS MARKETS # 40 SANTA CLARA |
| Handler Address: | 2360 N TUSTIN AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705-1603 |
| EPA ID: | CAL000340299 |
| Contact Name: | CHERYL SKALICKY |
| Contact Address: | 301 S. TIPPECANOE AVE. |
| Contact City,State,Zip: | SAN BERNARDINO, CA 92408 |
| Contact Telephone: | 909-733-5288 |
| Contact Fax: | 909-733-4288 |
| Contact Email: | CHERYL.SKALICKY@STATERBROS.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | PO BOX 150 |
| Mailing City,State,Zip: | SAN BERNARDINO, CA 92402-0000 |
| Owner Name: | STATER BROS MARKETS |
| Owner Type: | Other |
| Operator Name: | CHERYL SKALICKY |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |

**STATER BROS MARKETS # 40 SANTA CLARA (Continued)** **1024822334**

| | |
|---|---|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CHERYL SKALICKY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 301 S. TIPPECANOE AVE. |

**STATER BROS MARKETS # 40 SANTA CLARA (Continued)** **1024822334**

Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408
Owner/Operator Telephone: 909-733-5288
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: STATER BROS MARKETS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 301 S TIPPECANOE AVE
Owner/Operator City,State,Zip: SAN BERNARDINO, CA 92408-0121
Owner/Operator Telephone: 909-733-5000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20090203
Handler Name: STATER BROS MARKETS # 40 SANTA CLARA
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45291
NAICS Description: WAREHOUSE CLUBS AND SUPERCENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**B4** **THE VILLAGE AT ORANGE, LLC** **RCRA NonGen / NLR** **1026708092**
**East** **2300 N. TUSTIN AVENUE** **CAC003096095**
**< 1/8** **ORANGE, CA 92705**
**0.029 mi.**
**155 ft.** **Site 3 of 8 in cluster B**

**Relative:** RCRA NonGen / NLR:
**Lower** Date Form Received by Agency: 20201207
**Actual:** Handler Name: THE VILLAGE AT ORANGE, LLC
**192 ft.** Handler Address: 2300 N. TUSTIN AVENUE
Handler City,State,Zip: ORANGE, CA 92705
EPA ID: CAC003096095
Contact Name: PATRICK FURLONG

**THE VILLAGE AT ORANGE, LLC (Continued)** **1026708092**

| | |
|---|---|
| Contact Address: | 4695 MACARTHUR COURT, SUITE 700 |
| Contact City,State,Zip: | NEWPORT BEACH, CA 92660 |
| Contact Telephone: | 909-505-7007 |
| Contact Fax: | Not reported |
| Contact Email: | PFURLONG@TRCRETAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 4695 MACARTHUR COURT, SUITE 700 |
| Mailing City,State,Zip: | NEWPORT BEACH, CA 92660 |
| Owner Name: | TERRAMAR RETAIL CENTERS, LLC |
| Owner Type: | Other |
| Operator Name: | PATRICK FURLONG |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |

**THE VILLAGE AT ORANGE, LLC (Continued)** **1026708092**

| | |
|---|---|
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20201218 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | PATRICK FURLONG |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 4695 MACARTHUR COURT, SUITE 700 |
| Owner/Operator City,State,Zip: | NEWPORT BEACH, CA 92660 |
| Owner/Operator Telephone: | 909-505-7007 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | TERRAMAR RETAIL CENTERS, LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 4695 MACARTHUR COURT, SUITE 700 |
| Owner/Operator City,State,Zip: | NEWPORT BEACH, CA 92660 |
| Owner/Operator Telephone: | 909-505-7007 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20201207 |
| Handler Name: | THE VILLAGE AT ORANGE, LLC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |

**THE VILLAGE AT ORANGE, LLC (Continued)** **1026708092**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 339113
NAICS Description: SURGICAL APPLIANCE AND SUPPLIES MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**A5** **675 SANTA ANA AREA** **AST** **A100416808**
**West** **2031 EAST SANTA CLARA AVENUE** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.041 mi.**
**217 ft.** **Site 2 of 5 in cluster A**

**Relative:**
**Higher**

**Actual:**
**193 ft.**

AST:
Name: 675 SANTA ANA AREA
Address: 2031 EAST SANTA CLARA AVENUE
City/Zip: SANTA ANA,92705
Certified Unified Program Agencies: Not reported
Owner: Department of California Highway Patrol
Total Gallons: Not reported
CERSID: 10423726
Facility ID: FA0035501
Business Name: Department of California Highway Patrol
Phone: 714-567-6000
Fax: 714-547-8344
Mailing Address: 2031 East Santa Clara Avenue
Mailing Address City: Santa Ana
Mailing Address State: CA
Mailing Address Zip Code: 92705
Operator Name: Captain R. J. Lundy, #10757, Area #675 Santa Ana
Operator Phone: 714-567-6000
Owner Phone: 916-843-3800
Owner Mail Address: PO Box 942898
Owner State: CA
Owner Zip Code: Not reported
Owner Country: United States
Property Owner Name: Not reported
Property Owner Phone: Not reported
Property Owner Mailing Address: Not reported
Property Owner City: Not reported
Property Owner Stat : Not reported
Property Owner Zip Code: Not reported
Property Owner Country: Not reported
EPAID: CAL000046160

| | | | |
|---|---|---|---|
| **A6**<br>**West**<br>**< 1/8**<br>**0.041 mi.**<br>**217 ft.**<br><br>**Relative:**<br>**Higher**<br><br>**Actual:**<br>**193 ft.** | **CALIFORNIA HIGHWAY PATROL**<br>**2031 E SANTA CLARA**<br>**SANTA ANA, CA 92701**<br><br>**Site 3 of 5 in cluster A** | **RCRA-SQG**<br>**UST**<br>**CERS HAZ WASTE**<br>**SWEEPS UST**<br>**HIST UST**<br>**CERS TANKS**<br>**CA FID UST**<br>**FINDS**<br>**ECHO**<br>**HAZNET**<br>**CERS**<br>**HWTS** | **1000595164**<br>**CAD983590571** |

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 19910709 |
| Handler Name: | CALIFORNIA HIGHWAY PATROL |
| Handler Address: | 2031 E SANTA CLARA |
| Handler City,State,Zip: | SANTA ANA, CA 92701 |
| EPA ID: | CAD983590571 |
| Contact Name: | AGUILAR GONZALO |
| Contact Address: | 2031 E SANTA CLARA |
| Contact City,State,Zip: | SANTA ANA, CA 92701 |
| Contact Telephone: | 714-547-8311 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | CA |
| State District: | 4 |
| Mailing Address: | E SANTA CLARA |
| Mailing City,State,Zip: | SANTA ANA, CA 92701 |
| Owner Name: | CALIFORNIA HIGHWAY PATROL |
| Owner Type: | State |
| Operator Name: | NOT REQUIRED |
| Operator Type: | State |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20000915 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CALIFORNIA HIGHWAY PATROL |
| Legal Status: | State |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | NOT REQUIRED |
| Legal Status: | State |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19910709
Handler Name: CALIFORNIA HIGHWAY PATROL
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

UST:
Name: CALIFORNIA HIGHWAY PATROL - SANTA ANA AREA
Address: 2031 E. SANTA CLARA AVE.
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 30-020-sa194
Permitting Agency: SANTA ANA, CITY OF
Latitude: 33.7690237
Longitude: -117.8365402

CERS HAZ WASTE:
Name: CALIFORNIA HIGHWAY PATROL 675 SANTA ANA AREA
Address: 2031 EAST SANTA CLARA AVENUE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 383872
CERS ID: 10423726
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: CALIFORNIA HIGHWAY PATROL
Address: 2031 E SANTA CLARA AVE
City: SANTA ANA
Status: Active
Comp Number: 194

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Number: | 6 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 1 |
| SWRCB Tank Id: | 30-020-000194-000001 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 1 |

HIST UST:

| | |
|---|---|
| Name: | CALIFORNIA HIGHWAY PATROL |
| Address: | 2031 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92711 |
| File Number: | Not reported |
| URL: | Not reported |
| Region: | STATE |
| Facility ID: | 00000035438 |
| Facility Type: | Other |
| Other Type: | CHP |
| Contact Name: | Not reported |
| Telephone: | 9163225310 |
| Owner Name: | CALIFORNIA HIGHWAY PATROL |
| Owner Address: | P.O. BOX 898 |
| Owner City,St,Zip: | SACRAMENTO, CA 95804 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | 675-2 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000000 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | None |

CERS TANKS:

| | |
|---|---|
| Name: | CALIFORNIA HIGHWAY PATROL 675 SANTA ANA AREA |
| Address: | 2031 EAST SANTA CLARA AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 383872 |
| CERS ID: | 10423726 |
| CERS Description: | Aboveground Petroleum Storage |

CA FID UST:

| | |
|---|---|
| Facility ID: | 30010158 |
| Regulated By: | UTNKA |
| Regulated ID: | 00017992 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7145478311 |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Mail To: | Not reported |
| Mailing Address: | 2555 1ST ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

FINDS:

Registry ID: 110002850344

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000595164 |
| Registry ID: | 110002850344 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110002850344 |
| Name: | CALIFORNIA HIGHWAY PATROL |
| Address: | 2031 E SANTA CLARA |
| City,State,Zip: | SANTA ANA, CA 92701 |

HAZNET:

| | |
|---|---|
| Name: | CALIFORNIA HIGHWAY PATROL |
| Address: | 2031 E SANTA CLARA |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact: | INACTIVE PER SURVEY 1-25-95LH |
| Telephone: | 4155551212 |
| Mailing Name: | Not reported |
| Mailing Address: | 2031 E SANTA CLARA |
| Year: | 2004 |
| Gepaid: | CAD983590571 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1974 |
| Year: | 2003 |
| Gepaid: | CAD983590571 |
| TSD EPA ID: | CAT000613893 |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1848 |
| | |
| Year: | 2002 |
| Gepaid: | CAD983590571 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.0336 |
| | |
| Year: | 2001 |
| Gepaid: | CAD983590571 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1764 |
| | |
| Year: | 1999 |
| Gepaid: | CAD983590571 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1764 |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAD983590571 |
| | |
| Shipment Date: | 20030905 |
| Creation Date: | 7/29/2004 7:45:24 |
| Receipt Date: | 20030910 |
| Manifest ID: | 22513477 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0168 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Shipment Date: | 20030731 |
| Creation Date: | 7/23/2004 13:23:15 |
| Receipt Date: | 20030806 |
| Manifest ID: | 22873301 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.168 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1999 |
| Gen EPA ID: | CAD983590571 |

| | |
|---|---|
| Shipment Date: | 19991124 |
| Creation Date: | 1/19/2000 0:00:00 |
| Receipt Date: | 19991130 |
| Manifest ID: | 99123234 |
| Trans EPA ID: | ILD984908202 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | SCD987574647 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1134 |
| Waste Quantity: | 27 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19990617 |
| Creation Date: | 7/30/1999 0:00:00 |
| Receipt Date: | 19990622 |
| Manifest ID: | 99231857 |
| Trans EPA ID: | ILD984908202 |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | SCD987574647 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.063 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAD983590571 |
| | |
| Shipment Date: | 20040519 |
| Creation Date: | 10/15/2004 10:47:43 |
| Receipt Date: | 20040526 |
| Manifest ID: | 23467816 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0168 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040426 |
| Creation Date: | 10/14/2004 15:19:37 |
| Receipt Date: | 20040430 |
| Manifest ID: | 23472724 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1806 |
| Waste Quantity: | 43 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAD983590571 |
| | |
| Shipment Date: | 20021231 |
| Creation Date: | 3/31/2003 18:31:15 |
| Receipt Date: | 20030107 |
| Manifest ID: | 22204518 |
| Trans EPA ID: | SCR000075150 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0168 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20021011 |
| Creation Date: | 2/6/2003 18:31:16 |
| Receipt Date: | 20021024 |
| Manifest ID: | 21910048 |
| Trans EPA ID: | SCR000075150 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Quantity Tons: | 0.0168 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAD983590571 |
| Shipment Date: | 20011002 |
| Creation Date: | 12/17/2001 0:00:00 |
| Receipt Date: | 20011008 |
| Manifest ID: | 21454372 |
| Trans EPA ID: | SCR000075150 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1764 |
| Waste Quantity: | 42 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | CALIFORNIA HIGHWAY PATROL 675 SANTA ANA AREA |
| Address: | 2031 EAST SANTA CLARA AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 383872 |
| CERS ID: | 10423726 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-18-2014 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 01/15/2015. The HMBEP map shows the office building (with ammo storage location) but it does not include the rear parking lot and auto repair area where the oil, waste oil, ATF, oil filters and Fusees (flares) are stored. Please update the map to |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

include the entire area that stores haz mat and re submit via CERS.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 11-14-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 04/01/2019. Employee safety training records were observed to be over one year old (03/03/16). Hold a safety meeting covering the Emergency Action Plan and provide a record of the training to this agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 03-24-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 06/09/2021. Annual hazardous materials training records were not available during the inspection. Corrective action: Within 30 days, provide documentation of annual employee hazardous materials training records to this Agency.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 11-18-2014
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide and maintain adequate secondary containment.
Violation Notes: Returned to compliance on 12/22/2014. The SPCC lists the "general containment" for the site as using spill kits. There is a spill kit near the dispenser but the gasoline AST, with associated single walled piping has no spill kit. Please provide a spill kit in the area for the gasoline AST piping.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 11-18-2014

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

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|---|---|
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to have all buried piping corrosion protected with protective wrapping, coating, or with cathodic protection. |
| Violation Notes: | Returned to compliance on 12/09/2014. The SPCC states that there is no buried piping on site. It appears that the gasoline AST has single walled product/vapor return piping that goes underground. Have the PE review this area and make any technical amendments to the SPCC as needed to address this issue. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |
| | |
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-14-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 02/08/2019. Hazardous materials inventory submitted is inadequate. The following regulator comments have been left on CERS submission: Adjust the following on the Hazardous Materials Inventory: AMMUNITION: mark type as mixture, from SDS list mixture components that are greater than 1%, if multiple brands are on site list use the largest percentage listed for common mixture components // HYDRAULIC FLUID (ATF): include dashes in CAS #, new material does not need annual waste amount, if WASTE ATF is accumulated on site in a quantity greater than 55 gallons it must be reported separately from the new ATF // MOTOR OIL (NEW): include pressure (ambient) and temperature (ambient), does not need annual waste amount, maximum daily should be equal to or greater than the largest container size // MOTOR OIL (WASTE): maximum daily should be equal to or greater than the largest container size // USED OIL FILTERS: quantity stored on site is less than regulatory threshold remove from inventory // [Truncated] |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-14-2017 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 02/08/2019. The following required elements are missing from the site map: emergency evacuation staging area and emergency response equipment (ex: spill kit, absorbent, fire extinguisher). Add missing elements to map within 30 days and upload to CERS. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

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|---|---|
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-18-2014 |
| Citation: | HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple |
| Violation Description: | APSA Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 12/22/2014. The new oil and ATF drums are currently being stored on the garage floor, outside of secondary containment. Either move these drums into the waste oil bermed area or provide independent secondary containment for these drums in order to meet secondary containment requirements. Submit photos of the corrected drums in order to abate the violation. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-18-2014 |
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to provide training regarding: 1. The operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. AND 5. The contents of the SPCC Plan. |
| Violation Notes: | Returned to compliance on 12/04/2014. The facility has a new garage staff that will be responsible for the SPCC inspections. Please have him trained immediately on SPCC issues and submit his training records in order to abate the violations. Have all future staff equally trained. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-14-2017 |
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to comply with one or more of the following requirements: 1. Have record of inspections and integrity tests signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and integrity tests for at least three years. 3. Keep comparison records. |
| Violation Notes: | Returned to compliance on 04/01/2019. Per SPCC Plan monthly inspections will be conducted. Inspection reports for October were unavailable. Provide to this agency a copy of the most recent inspection report within 30 days. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 03-24-2021 |
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

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|---|---|
| | 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to comply with one or more of the following requirements: 1. Have record of inspections and tests, including integrity tests, signed by the appropriate supervisor or inspector. 2. Keep written procedures and records of inspections and tests, including integrity tests, for at least three years. 3. Keep comparison records. |
| Violation Notes: | Returned to compliance on 03/24/2021. The facility failed to conduct monthly inspections of the aboveground tanks, piping, and secondary containment. Corrective action: An inspection was conducted and documentation was provided to this Agency after the inspector left the facility. The violation was observed to be corrected. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |
| | |
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-14-2017 |
| Citation: | HSC 6.5 25201 - California Health and Safety Code, Chapter 6.5, Section(s) 25201 |
| Violation Description: | Failure to obtain a permit or grant of interim status after generator has accumulated hazardous waste on-site for longer than 90 days. |
| Violation Notes: | Observed one 55 gallon drum of waste anti-freeze and one 55 gallon drum of used oil filters. After review of hazardous waste manifest, materials have been stored on site for greater than 180 days. Have both materials hauled immediately and provide a copy of the hazardous waste manifest to this agency. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 03-24-2021 |
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to conduct spill prevention briefing for oil-handling personnel at least once a year to assure adequate understanding of the SPCC Plan. |
| Violation Notes: | Returned to compliance on 06/09/2021. Documentation of annual spill prevention briefing were not available during the inspection. Corrective action: Within 30 days, provide training records for the annual spill prevention briefings to this Agency. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | APSA |
| Violation Source: | CERS |
| | |
| Site ID: | 383872 |
| Site Name: | California Highway Patrol 675 Santa Ana Area |
| Violation Date: | 11-18-2014 |
| Citation: | HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a) |
| Violation Description: | Failure to comply with all of the following requirements: 1. Failure to conduct inspections and tests in accordance with written procedures that you or a certifying engineer have developed for the facility. 2. Failure to sign written procedures and/or a record of inspections and/or customary business records by the appropriate supervisor or |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

inspector. 3. Failure to keep written procedures and/or a record of inspections and/or customary business records with the plan. AND 4. Failure to maintain written procedures and/or a record of inspections and/or customary business records for three years.

Violation Notes: Returned to compliance on 12/04/2014. The facility has a new garage staff that will be responsible for the SPCC visual inspections. Please have him begin making the required monthly visual inspections and retain them for the last 3 years. Submit the latest inspection log in order to abate the violation.

Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 11-18-2014
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/13/2015. The HMBEP submitted via CERS has the following errors: The waste motor oil is listed as being stored in55 gallon drums. Actually stored in an aboveground storage tank (AST). The new motor oil does not need a "waste code". The inventory needs to add the (1) 55 gallon drum of ATF. The inventory needs to add the (2) propane ASTs.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 383872
Site Name: California Highway Patrol 675 Santa Ana Area
Violation Date: 11-14-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to provide the following training to all oil-handling personnel: 1. Operation and maintenance of equipment to prevent discharges. 2. Discharge procedure protocols. 3. Applicable pollution control laws, rules, and regulations. 4. General facility operations. 5. Contents of the SPCC Plan.
Violation Notes: Returned to compliance on 04/01/2019. Employee training covering the SPCC plan was observed to be over one year; training dated 11/08/16. Hold a training session with all employees responsible for SPCC Plan and maintenance. Provide a record of the training to this agency within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 01-15-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Read/review HMBEP re submittal in CERS. All requested changes have been made. The HMBEP is accepted. The violations listed on the

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

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|---|---|
| | 11-18-14 on site inspection have been abated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-20-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Follow-up CERS Review 1. Facility: ACCEPTED 2. Inventory: ACCEPTED 3. Plans: ACCEPTED 4. APSA: ACCEPTED The CERS submittal is conditionally accepted. On-site verification will occur during your routine inspection and your site is subject to make any corrections within a set time frame. Please notify this agency through CERS, of any change of ownership, changes in hazardous material quantities of over 100%, or the addition of new hazardous materials. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-24-2021 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for routine Aboveground Petroleum Storage Tank (APST) inspection. Consent to enter and inspect was given by Kenneth Glosser, Auto Tech. The facility has the following petroleum storage capacity: - 12,000 gallon Double-walled Gasoline Aboveground Storage Tank - 240 gallon Double-walled Waste oil Aboveground Storage Tank - 2(55) gallon Motor oil drums Total petroleum storage for the facility= 12,350 gallons The facility is regulated as a Non-Qualified facility. The Spill Prevention Control and Countermeasures (SPCC) plan was certified on 12/18/2019. Monthly inspections were not conducted on aboveground tanks. (See violation) Annual STI tank inspections were conducted on the 12,000 gallon gasoline tank. Training records were not observed. (Refer to violation) A copy of this inspection report was emailed to Karen.mejia@chp.ca.gov. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-22-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Called to schedule the SPCC inspection. Left VM. SPCC due 9-2014. Will make inspection after that date to review new SPCC. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 08-19-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Called CHP/Cate to schedule the HMBEP inspection. Left VM. |
| Eval Division: | Orange County Environmental Health |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-13-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Read/reviewed HMBEP in CERS. Most of the requested changes have been made. One more change is needed: 1) On the chemical inventory list, the Fusee flares need to have the "fire code" completed. Please list this item as "oxidizer". Once re submitted and re reviewed, the HMBEP will be accepted. Violation # I632 (map) has been abated. Violation # I169 is still outstanding, needing the fire code for the flares listed.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-19-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Called CHP/Cate to schedule the SPCC inspection. Left VM.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-13-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Inspect w/Emily
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-16-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: VM from CHP/Cate. Does the SPCC require 55 or 67 gallon spill kits. Called her back. Advised it is her call as to what size spill kit to use. She will use the 55 gallon kit.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Eval Date: | 10-02-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Called CHP/Susan Cate. Left a VM. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-13-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspect w/Emily |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-17-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Read/reviewed HMBEP in CERS. SPCC is on site. Accepted. Still need to update the map. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |

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|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-18-2014 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site to conduct the annual hazardous waste (HW) inspection. Permission to inspect granted by CHP/Cate. The waste antifreeze is no longer generated, all radiator work is done at a vendor site. All drums/tanks were properly labeled with HW labels. EPA ID # is current. No leaks in storage. Perimeter was clean. Trash can was only municipal trash, no HW. Manifests on site and available for review. Emergency response procedures in place. HMBEP on file with CERS. No violations. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-09-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received from CHP/Cate, via E-mail, the amendment to the SPCC listing the underground piping as having corrosion wrap. Abate violation # I443 on the 11-18-14 inspection. Still awaiting correction of the outstanding violations: spill kits and secondary containment for the new oil/ATF drums. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-08-2017 |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed CERS submission Facility Information Accepted Hazardous Materials Inventory Not Accepted Adjust the following on the Hazardous Materials Inventory: AMMUNITION: mark type as mixture, from SDS list mixture components that are greater than 1%, if multiple brands are on site list use the largest percentage listed for common mixture components // HYDRAULIC FLUID (ATF): include dashes in CAS #, new material does not need annual waste amount, if WASTE ATF is accumulated on site in a quantity greater than 55 gallons it must be reported separately from the new ATF // MOTOR OIL (NEW): include pressure (ambient) and temperature (ambient), does not need annual waste amount, maximum daily should be equal to or greater than the largest container size // MOTOR OIL (WASTE): maximum daily should be equal to or greater than the largest container size // USED OIL FILTERS: include pressure (ambient) and temperature (ambient), maximum daily should be equal to or greater than [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-20-2020 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The purpose of this offsite reinspection is to follow up on a violation cited on a previous inspection report. This agency has not received employee training records pertaining to the Hazardous Materials Emergency Response Plan. Violation I239 remains outstanding. CORRECTIVE ACTION REQUIRED: Submit employee training records to this agency with the following information documented: - Topic of Training - Date of Training - Employee Name - Employee Signature A copy of this report will be sent to: Karen Mejia, Environmental Contact <karen.mejia@chp.ca.gov> |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-25-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Emailed Environmental Contact, Karen Mejia, to request training records for outstanding violations. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 05-16-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received call from Beth Depaola regarding permits for APSA, HMBP, and WTE. See email below: Hi Beth, As a follow-up to our phone conversation, I have California Highway Patrol, 2031 E. Santa Clara Ave, in 3 of our regulated programs. Aboveground Petroleum Storage Tank (APSA) Hazardous Materials Disclosure (HMBP) Waste Tire |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

Enforcement (WTE) Our department does not issue permits for APSA and HMBP. You are, however, required to notify our Agency, via CERS, annually before March 1st of each year, with or without changes. This essentially is what we based your compliance status upon. You can print out a copy of the submission log via CERS to prove that you are in compliance. The WTE program is permitted by CalRecycle. You should already have a copy of this permit posted on site. Please feel free to contact me if you have any questions. Thank you, Minh U. Le

Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-30-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Called CHP/Cate to schedule the inspection. Set inspection for 11-18-14/0900.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-13-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Correct all violations listed in this inspection report within 30 days. The California Environmental Reporting System (CERS) can be accessed at: http://cers.calepa.ca.gov
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-14-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CHP/Sgt. Knarr called. We discussed the outstanding violation. He will chang the HMBEP today and re submit for my re evaluation tomorrow.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-19-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on CERS: -Business

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

Activities -Business Owner/Operator -Emergency Response & Training Plans The following documents were received and DECLINED on CERS: -Chemical Inventory -Facility Site Map

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-24-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. The inspection was conducted with Kenneth Glosser, Auto Tech. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Gasoline- 12,000 gallons - Waste Oil- 240 gallons - Motor Oil- 110 gallons - Ammunition- 500 pounds - Fusee(road flares)- 1,000 pounds REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-04-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following violations have been cited on a previous inspection report on 11/13/2017 and remain outstanding. I169 G Inadequate completion and electronic submission of hazardous materials inventory information. I632 G Inadequate completion and electronic submission of the annotated Site Map with all required content. I239 G Initial and/or annual employee training was not completed, not documented, and records were not made available for 3 years. Please submit the updated Inventory and Site Map via the California Environmental Reporting System (CERS) via cers.calepa.ca.gov. Submit documentation to this agency demonstrating that employees have received training on safe handling of hazardous materials and the Emergency Response Plan If you have questions about your submission you can contact me at TWitter@ochca.com or 714-380-9762. Submit corrections within 30 days
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 10-02-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Called CHP/Susan Cate. Left a VM.
Eval Division: Orange County Environmental Health

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 10-30-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Called CHP/CAte. Set inspection for 11-18-14/0900. Advised i haven ot found this site in CERS nor E-submit. She will review and advise ASAP. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-07-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-13-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Read/reviewed (7) HMBEPs submitted via CERS. The site is listed inCERS with the address of "675 Santa Ana Area" and not as the actual address of 2013 E.Santa Clara, Santa Ana address. Most of the HMBEPs CUPA forms were OK. The maps were rejected (no automotive and ammo locations), the inventory list had incorrect CAS #s and it showed the SPCC for the Santa Clara Calif office (possilby a mistake due to the street address is Santa Clara, Santa Ana). Rejected most of the HMBEPs. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 11-13-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Inspect w/Emily |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-13-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Eval Date: | 11-13-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Spill Prevention Control and Countermeasure (SPCC) Plan was available for review, plan is dated 12/08/2014. Facility has a storage capacity over 10,000 gallons, plan must be reviewed by a Professional Engineer every 5 years. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-24-2021 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Walked the facility with Kenneth Glosser, Auto Tech. Verified ownership as DEPARTMENT OF CALIFORNIA HIGHWAY PATROL. The facility is a Small Quantity Hazardous Waste Generator with waste streams from automobile maintenance. Inspected the facility, hazardous waste storage area, the perimeter and the municipal trash. No hazardous materials were observed in the municipal trash. Hazardous waste containers were observed to be in good condition, stored closed, and were properly labeled. Hazardous waste manifests were reviewed. Employees were reported to be trained. Emergency response phone numbers were available in the office. A copy of this report was sent to karen.mejia@chp.ca.gov. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-27-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Emailed Karen Mejia in regards to APSA training requirements. Karen stated that she would follow up with the required training records to address the open violations. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-18-2014 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for the triennial Hazardous Materials Disclosure/Business Emergency Plan (HMBEP) inspection. Permission to inspect granted by CHP/Cate. The facility has previously submitted an HMBEP via CERS. The CERS submission was rejected, needing additions to the map. The on site inspection found that the site needs 1) to update the chemical inventory 2) update the site map. See violations. The BEP was completed accurately. HMBEP training is complete. Have the listed violations corrected on/before 1-19-15 and re submit via CERS for re evaluation. Once corrected, the site will be re evaluated in CERS and the violations abated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-18-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for the triennial Spill Prevention Control and Countermeasure (SPCC) inspection. Permission to inspect granted by CHP/Cate. The facility has a current SPCC. Written11-2014. It is due for revalidation on/before 11-2019. The facility has the following SPCC regulated tanks: (1) 12,000 gallon, gasoline, aboveground storage tank (AST), double walled, electronic and visual overfill protection (OFP). (1) 240 gallon, waste oil, AST, double walled, with tertiary bermed containment and visual OFP. (1) 55 gallon drum, new oil. (1) 55 gallon drum, ATF. The drums are outside of secondary containment berms. See violations. The facility is required to conduct monthly visual inspections. To date, the new hire SPCC staff has not generated any inspection reports. See violations. A tank integrity test (TIT) is required on/before 2028 for the gasoline AST (installed 2008). The new staff haas not yet been trained on SPCC issues. See violations. There are no [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received annual training and monthly visual inspection logs. Abate violations #I009 and #I258 listed on the 11-18-2014 inspection report. Violations still outstanding: I192 spill kits. I683 drum secondary containment. I443 technical amendment to address the buried piping.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-22-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received E-mail photos of new secondary containment for the oil drums and spill kit for the piping on the fuel AST. Abate violations # I192 and I683 listed on the 11-18-2014 inspection. All violations have been abated.
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Jeff Beam
Entity Title: Sergeant
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Department of California Highway Patrol |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Jeff Beam |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2031 East Santa Clara Avenue |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Captain Michael Harris, Area #675 Santa Ana |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 567-6000 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Karen Mejia |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 942898 |

**CALIFORNIA HIGHWAY PATROL (Continued)** **1000595164**

| | |
|---|---|
| Affiliation City: | Sacramento |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 94298-0001 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Department of California Highway Patrol |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 942898 |
| Affiliation City: | Sacramento |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94298-0001 |
| Affiliation Phone: | (916) 843-3800 |

HWTS:

| | |
|---|---|
| Name: | CALIFORNIA HIGHWAY PATROL |
| Address: | 2031 E SANTA CLARA |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAD983590571 |
| Inactive Date: | 01/01/1995 |
| Create Date: | 07/09/1991 |
| Last Act Date: | 04/11/2006 |
| Mailing Name: | Not reported |
| Mailing Address: | 2031 E SANTA CLARA |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927010000 |
| Owner Name: | CALIFORNIA HIGHWAY PATROL |
| Owner Address: | NOT REQUIRED |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | NOT REQUIRED, ME 999990000 |
| Contact Name: | INACTIVE PER SURVEY 1-25-95LH |
| Contact Address: | NOT REQUIRED |
| Contact Address 2: | Not reported |
| City,State,Zip: | NOT REQUIRED, ME 999990000 |

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**A7 West < 1/8 0.041 mi. 217 ft.** **CALIFORNIA HIGHWAY PATROL #675 SANTA ANA** **RCRA NonGen / NLR** **1024788511**
**2031 E SANTA CLARA AVE** **CAL000046160**
**SANTA ANA, CA 92705**

**Site 4 of 5 in cluster A**

**Relative: Higher**
**Actual: 193 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 19910215 |
| Handler Name: | CALIFORNIA HIGHWAY PATROL #675 SANTA ANA |
| Handler Address: | 2031 E SANTA CLARA AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705-2838 |
| EPA ID: | CAL000046160 |
| Contact Name: | BETH DEPAOLA |
| Contact Address: | PO BOX 942898 |
| Contact City,State,Zip: | SACRAMENTO, CA 94298-0001 |
| Contact Telephone: | 916-843-3817 |
| Contact Fax: | 916-322-3172 |
| Contact Email: | EDEPAOLA@CHP.CA.GOV |

**CALIFORNIA HIGHWAY PATROL #675 SANTA ANA (Continued)** **1024788511**

| | |
|---|---|
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | PO BOX 942898 |
| Mailing City,State,Zip: | SACRAMENTO, CA 94298-0001 |
| Owner Name: | CALIFORNIA HIGHWAY PATROL |
| Owner Type: | Other |
| Operator Name: | BETH DEPAOLA |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |

**CALIFORNIA HIGHWAY PATROL #675 SANTA ANA (Continued)** **1024788511**

| | |
|---|---|
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CALIFORNIA HIGHWAY PATROL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | PO BOX 942898 |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 94298-0001 |
| Owner/Operator Telephone: | 916-843-3800 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BETH DEPAOLA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | PO BOX 942898 |
| Owner/Operator City,State,Zip: | SACRAMENTO, CA 94298-0001 |
| Owner/Operator Telephone: | 916-843-3817 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19910215 |
| Handler Name: | CALIFORNIA HIGHWAY PATROL #675 SANTA ANA |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

**CALIFORNIA HIGHWAY PATROL #675 SANTA ANA (Continued)** **1024788511**

List of NAICS Codes and Descriptions:
NAICS Code: 92212
NAICS Description: POLICE PROTECTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**A8 West < 1/8 0.041 mi. 217 ft.** **CALIFORNIA HIGHWAY PATROL** **HIST UST** **U001578414**
**2031 E SANTA CLARA AVE** **N/A**
**SANTA ANA, CA 92711**

**Site 5 of 5 in cluster A**

**Relative: Higher**
**Actual: 193 ft.**

HIST UST:
Name: CALIFORNIA HIGHWAY PATROL
Address: 2031 E SANTA CLARA AVE
City,State,Zip: SANTA ANA, CA 92711
File Number: 0002E687
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E687.pdf
Region: STATE
Facility ID: 00000017992
Facility Type: Other
Other Type: CHP
Contact Name: Not reported
Telephone: 7145478311
Owner Name: CALIFORNIA HIGHWAY PATROL
Owner Address: P.O. BOX 898
Owner City,St,Zip: SACRAMENTO, CA 95804
Total Tanks: 0001

Tank Num: 001
Container Num: 675-1
Year Installed: 1974
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 001
Container Num: 675-1
Year Installed: 1974
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual, Stock Inventor

Click here for Geo Tracker PDF:

**C9 ESE < 1/8 0.046 mi. 242 ft.** | **E-Z SERVE 2151 SANTA CLARA SANTA ANA, CA 92701** | **LUST HIST CORTESE** | **S103463993 N/A**

**Site 1 of 8 in cluster C**

**Relative: Lower**

**Actual: 191 ft.**

LUST REG 8:

| | |
|---|---|
| Name: | E-Z SERVE |
| Address: | 2151 SANTA CLARA AVE |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Case Closed |
| Case Number: | 083001207T |
| Local Case Num: | Not reported |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | TUSTIN |
| Enf Type: | CLOS |
| Funding: | Not reported |
| How Discovered: | Tank Test |
| How Stopped: | Not reported |
| Leak Cause: | UNK |
| Leak Source: | UNK |
| Global ID: | T0605900943 |
| How Stopped Date: | 3/28/1989 |
| Enter Date: | 9/5/1989 |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | 3/28/1989 |
| Enforcement Date: | 1/1/1965 |
| Close Date: | 9/11/1992 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | 7/5/1989 |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | 9/5/1989 |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Yes |
| Oversite Program: | LUST |
| Latitude: | 33.7672961 |
| Longitude: | -117.8361958 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 1 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | MTBE Detected. Site tested for MTBE & MTBE detected |
| MTBE Class: | * |
| Staff: | NOM |
| Staff Initials: | JB |
| Lead Agency: | Local Agency |

**E-Z SERVE (Continued)** **S103463993**

Local Agency: Santa Ana, Orange County
Hydr Basin #: COASTAL PLAIN OF ORA
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

HIST CORTESE:
edr_fname: E-Z SERVE
edr_fadd1: 2151 SANTA CLARA
City,State,Zip: SANTA ANA, CA 92701
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001207T

---

**C10**
**ESE**
**< 1/8**
**0.046 mi.**
**244 ft.**

**UNOCAL #5348**
**2301 TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 2 of 8 in cluster C**

**LUST** **S102440312**
**CHMIRS** **N/A**

**Relative:**
**Lower**

**Actual:**
**191 ft.**

LUST REG 8:
Name: UNOCAL #5348
Address: 2301 TUSTIN AVE
City: SANTA ANA
Region: 8
County: Orange
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083002492T
Local Case Num: Not reported
Case Type: Soil only
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: EDETVE
Cross Street: SANTA CLARA
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: Tank
Global ID: T0605901770
How Stopped Date: 5/26/1994
Enter Date: 8/29/1994
Date Confirmation of Leak Began: 5/26/1994
Date Preliminary Assessment Began: Not reported
Discover Date: 5/26/1994
Enforcement Date: Not reported
Close Date: 1/13/1995
Date Prelim Assessment Workplan Submitted: Not reported
Date Pollution Characterization Began: 6/1/1994
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported

**UNOCAL #5348 (Continued)** **S102440312**

| | |
|---|---|
| Enter Date: | 8/29/1994 |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Yes |
| Oversite Program: | LUST |
| Latitude: | 33.76732226 |
| Longitude: | -117.8355928 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |
| MTBE Class: | * |
| Staff: | NOM |
| Staff Initials: | JB |
| Lead Agency: | Local Agency |
| Local Agency: | Santa Ana, Orange County |
| Hydr Basin #: | COASTAL PLAIN OF ORA |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |
| Summary: | REMOVED PIPING; MOST FUEL-IMPACTED SOILS EXCAVATED, EXCEPT FOR DEEPER SOILS UNDER PUMP ISLANDS |

CHMIRS:

| | |
|---|---|
| Name: | Not reported |
| Address: | 2301 NORTH TUSTIN AV |
| City,State,Zip: | SANTA ANA, CA 92701 |
| OES Incident Number: | 10700 |
| OES notification: | Not reported |
| OES Date: | 10/28/1995 |
| OES Time: | 07:39:41 PM |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |

**UNOCAL #5348 (Continued)** **S102440312**

| | |
|---|---|
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | YES |
| Waterway: | Not reported |
| Spill Site: | Not reported |
| Cleanup By: | so cal gas co |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | VAPOR |
| Measure: | Not reported |
| Other: | Not reported |
| Date/Time: | Not reported |
| Year: | 1995 |
| Agency: | santa ana fd |
| Incident Date: | 1357/28oct95 |
| Admin Agency: | Not reported |
| Amount: | unk |
| Contained: | NO |
| Site Type: | RD |
| E Date: | Not reported |
| Substance: | natural gas |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | YES |
| Number of Injuries: | NO |
| Number of Fatalities: | NO |
| #1 Pipeline: | Not reported |
| #2 Pipeline: | Not reported |
| #3 Pipeline: | Not reported |
| #1 Vessel >= 300 Tons: | Not reported |
| #2 Vessel >= 300 Tons: | Not reported |
| #3 Vessel >= 300 Tons: | Not reported |
| Evacs: | Not reported |
| Injuries: | Not reported |
| Fatals: | Not reported |
| Comments: | Not reported |
| Description: | hi-pressure leak in 4" pipe which was accidently cut by contractor digging. gas Co has shut off line. some residents & business's in adjacent area were evacuated. |

---

**C11** **STATION #5348** **HIST UST** **U001578266**
**East** **2301 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.054 mi.**
**287 ft.** **Site 3 of 8 in cluster C**

**Relative:**
**Lower**

**Actual:**
**192 ft.**

HIST UST:

| | |
|---|---|
| Name: | STATION #5348 |
| Address: | 2301 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| File Number: | Not reported |
| URL: | Not reported |
| Region: | STATE |
| Facility ID: | 00000043673 |

**STATION #5348 (Continued)** **U001578266**

| | |
|---|---|
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | E.W. WILROY/C. CHAPPELL |
| Telephone: | 7148356652 |
| Owner Name: | UNION OIL COMPANY OF CALIFORNI |
| Owner Address: | 1450 FRAZEE ROAD |
| Owner City,St,Zip: | SAN DIEGO, CA 92108 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | 5348-00 |
| Year Installed: | 1968 |
| Tank Capacity: | 00000000 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | 6 |
| Leak Detection: | Visual |

---

**C12** **C & C UNOCAL 76** **LUST** **S101619803**
**East** **2301 N TUSTIN** **CA FID UST** **N/A**
**< 1/8** **SANTA ANA, CA 92705** **Cortese**
**0.054 mi.** **CERS**
**287 ft.** **Site 4 of 8 in cluster C** **HWTS**

**Relative:**
**Lower**

**Actual:**
**192 ft.**

LUST:

| | |
|---|---|
| Name: | UNOCAL #5348 |
| Address: | 2301 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Lead Agency: | SANTA ANA, CITY OF |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901770 |
| Global Id: | T0605901770 |
| Latitude: | 33.767462 |
| Longitude: | -117.835338 |
| Status: | Completed - Case Closed |
| Status Date: | 01/13/1995 |
| Case Worker: | CC |
| RB Case Number: | 083002492T |
| Local Agency: | SANTA ANA, CITY OF |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901770 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | CHRISTOPHER CIRAULO |
| Organization Name: | SANTA ANA, CITY OF |
| Address: | 1439 S. BROADWAY |
| City: | SANTA ANA |
| Email: | cciraulo@santa-ana.org |
| Phone Number: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901770 |
| Action Type: | Other |

**C & C UNOCAL 76 (Continued)** **S101619803**

Date: 05/26/1994
Action: Leak Discovery

Global Id: T0605901770
Action Type: Other
Date: 06/01/1994
Action: Leak Reported

Global Id: T0605901770
Action Type: Other
Date: 05/26/1994
Action: Leak Stopped

Global Id: T0605901770
Action Type: ENFORCEMENT
Date: 01/13/1995
Action: Closure/No Further Action Letter

LUST:
Global Id: T0605901770
Status: Open - Case Begin Date
Status Date: 05/26/1994

Global Id: T0605901770
Status: Open - Site Assessment
Status Date: 05/26/1994

Global Id: T0605901770
Status: Open - Site Assessment
Status Date: 06/01/1994

Global Id: T0605901770
Status: Completed - Case Closed
Status Date: 01/13/1995

CA FID UST:
Facility ID: 30012041
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7148356652
Mail To: Not reported
Mailing Address: 17700 CASTLETON ST
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92705
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

Facility ID: 30012041

**C & C UNOCAL 76 (Continued)** **S101619803**

| | |
|---|---|
| Regulated By: | UTNKA |
| Regulated ID: | 00019941 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7148356652 |
| Mail To: | Not reported |
| Mailing Address: | 2301 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92705 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

CORTESE:

| | |
|---|---|
| Name: | UNOCAL #5348 |
| Address: | 2301 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605901770 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | UNOCAL #5348 |
| Address: | 2301 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 190501 |
| CERS ID: | T0605901770 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | CHRISTOPHER CIRAULO - SANTA ANA, CITY OF |
| Entity Title: | Not reported |
| Affiliation Address: | 1439 S. BROADWAY |
| Affiliation City: | SANTA ANA |

**C & C UNOCAL 76 (Continued)** **S101619803**

| | |
|---|---|
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

HWTS:

| | |
|---|---|
| Name: | C & C UNOCAL 76 |
| Address: | 2301 N TUSTIN |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927050000 |
| EPA ID: | CAL000068571 |
| Inactive Date: | 01/01/1900 |
| Create Date: | 05/07/1992 |
| Last Act Date: | 06/27/1995 |
| Mailing Name: | Not reported |
| Mailing Address: | 2301 N TUSTIN |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927050000 |
| Owner Name: | UNOCAL REFINING & MARKETING |
| Owner Address: | -- |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | --, 99 -- |
| Contact Name: | STA CLS. TANK REMOVED 5/94 |
| Contact Address: | PER DAVE CORDER OF UNOCAL J0 |
| Contact Address 2: | Not reported |
| City,State,Zip: | --, 99 -- |

| | |
|---|---|
| Name: | C & C UNOCAL 76 |
| Address: | 2301 N TUSTIN |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAL920606232 |
| Inactive Date: | 01/01/1900 |
| Create Date: | 02/29/1992 |
| Last Act Date: | 06/27/1995 |
| Mailing Name: | Not reported |
| Mailing Address: | 2301 N TUSTIN |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927010000 |
| Owner Name: | CHAPPELL CHRIS |
| Owner Address: | 2301 N TUSTIN |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact Name: | STA CLS. TANK REMOVED 5/94 |
| Contact Address: | PER DAVE CORDER OF UNOCAL. J0 |
| Contact Address 2: | Not reported |
| City,State,Zip: | --, 99 -- |

**C13 East < 1/8 0.054 mi. 287 ft.** | **C&C UNOCAL 76** | **EDR Hist Auto** | **1020824517** | **N/A**
**2301 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 5 of 8 in cluster C**

**Relative: Lower**
**Actual: 192 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1969 | PINNELL HAROLD C | Gasoline Service Stations |
| 1970 | PINNELL HAROLD C | Gasoline Service Stations |
| 1971 | PINNELL HAROLD C | Gasoline Service Stations |
| 1972 | PINNELL HAROLD C | Gasoline Service Stations |
| 1973 | PINNELL HAROLD C | Gasoline Service Stations |
| 1974 | PINNELL HAROLD C | Gasoline Service Stations |
| 1975 | PINNELL HAROLD C | Gasoline Service Stations |
| 1983 | PINNELL HAROLD C | Gasoline Service Stations |
| 1985 | PINNELL HAROLD C | Gasoline Service Stations |
| 1986 | PINNELL HAROLD C | Gasoline Service Stations |
| 1989 | C&C UNOCAL 76 | Gasoline Service Stations |
| 1990 | C&C UNOCAL 76 | Gasoline Service Stations |
| 1991 | C&C UNOCAL 76 | Gasoline Service Stations |
| 1992 | C&C UNOCAL 76 | Gasoline Service Stations |
| 1993 | C&C UNOCAL 76 | Gasoline Service Stations |

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**C14 East < 1/8 0.054 mi. 287 ft.** | **UNION OIL SERVICE STATION 534** | **SWEEPS UST** | **U001578274**
**2301 N TUSTIN AVENUE** | **HIST UST** | **N/A**
**SANTA ANA, CA 92705**

**Site 6 of 8 in cluster C**

**Relative: Lower**
**Actual: 192 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #5348 |
| Address: | 2301 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 224 |
| Number: | Not reported |
| Board Of Equalization: | 44-001057 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000224-000001 |
| Tank Status: | Not reported |
| Capacity: | 9940 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 3 |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #5348 |
| Address: | 2301 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 224 |
| Number: | Not reported |
| Board Of Equalization: | 44-001057 |
| Referral Date: | Not reported |

**UNION OIL SERVICE STATION 534 (Continued)** **U001578274**

| | |
|---|---|
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000224-000002 |
| Tank Status: | Not reported |
| Capacity: | 9940 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #5348 |
| Address: | 2301 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 224 |
| Number: | Not reported |
| Board Of Equalization: | 44-001057 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000224-000003 |
| Tank Status: | Not reported |
| Capacity: | 500 |
| Active Date: | Not reported |
| Tank Use: | OIL |
| STG: | WASTE |
| Content: | WASTE OIL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | UNOCAL SERVICE STATION #5348 |
| Address: | 2301 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 224 |
| Number: | 1 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 07-21-93 |
| Action Date: | 07-21-93 |
| Created Date: | 01-26-92 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | Not reported |
| Tank Status: | Not reported |
| Capacity: | Not reported |
| Active Date: | Not reported |
| Tank Use: | Not reported |
| STG: | Not reported |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

HIST UST:

| | |
|---|---|
| Name: | STATION 5348 |
| Address: | 2301 NORTH TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| File Number: | 0002D66F |

**UNION OIL SERVICE STATION 534 (Continued)** **U001578274**

| | |
|---|---|
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002D66F.pdf |
| Region: | STATE |
| Facility ID: | 00000019941 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | E.W. WILROY AND C. CHAPPELL |
| Telephone: | 7148356652 |
| Owner Name: | UNION OIL COMPANY OF CALIFORNI |
| Owner Address: | 123 CAMINO DELA REINA |
| Owner City,St,Zip: | SAN DIEGO, CA 92108 |
| Total Tanks: | 0003 |
| | |
| Tank Num: | 001 |
| Container Num: | 5348-22 |
| Year Installed: | 1968 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 001 |
| Container Num: | 5348-22 |
| Year Installed: | 1968 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 002 |
| Container Num: | 5348-11 |
| Year Installed: | 1968 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 002 |
| Container Num: | 5348-11 |
| Year Installed: | 1968 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 003 |
| Container Num: | 5348-34 |
| Year Installed: | 1968 |
| Tank Capacity: | 00000280 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | None |

**UNION OIL SERVICE STATION 534 (Continued)** **U001578274**

| | |
|---|---|
| Tank Num: | 003 |
| Container Num: | 5348-34 |
| Year Installed: | 1968 |
| Tank Capacity: | 00000280 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | None |

Click here for Geo Tracker PDF:

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**D15** **SB JOO INC** **RCRA NonGen / NLR** **1024845453**
**SE** **2239 N TUSTIN AVE** **CAL000398615**
**< 1/8** **SANTA ANA, CA 92705**
**0.076 mi.**
**401 ft.** **Site 1 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20140714 |
| Handler Name: | SB JOO INC | |
| Handler Address: | | 2239 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-7820 |
| EPA ID: | | CAL000398615 |
| Contact Name: | | SEONG BONG JOO |
| Contact Address: | | 2239 N TUSTIN AVE |
| Contact City,State,Zip: | | SANTA ANA, CA 92705-7820 |
| Contact Telephone: | | 714-547-2121 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2239 N TUSTIN AVE |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705-7820 |
| Owner Name: | | SB JOO INC |
| Owner Type: | | Other |
| Operator Name: | | SEONG BONG JOO |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |

**SB JOO INC (Continued)** **1024845453**

| | |
|---|---|
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180906 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SB JOO INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2239 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7820 |
| Owner/Operator Telephone: | 714-547-2121 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**SB JOO INC (Continued)** **1024845453**

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SEONG BONG JOO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2239 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7820 |
| Owner/Operator Telephone: | 714-547-2121 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20140714 |
| Handler Name: SB JOO INC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 81232 |
| NAICS Description: | DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED) |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**D16** **DANNYS CLEANERS** **EDR Hist Cleaner** **1019968892**
**SE** **2239 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.076 mi.**
**401 ft.** **Site 2 of 16 in cluster D**

**Relative:**
**Lower**

EDR Hist Cleaner

**Actual:**
**190 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1996 | DUGAN DAN | Drycleaning Plants, Except Rugs |
| 1997 | DUGAN DAN | Drycleaning Plants, Except Rugs |
| 1998 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 1999 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2000 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2001 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2002 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2003 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2004 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2005 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |

**DANNYS CLEANERS (Continued)** **1019968892**

| | | |
|---|---|---|
| 2006 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2007 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2008 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2009 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2010 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2011 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2012 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2013 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |
| 2014 | DANNYS CLEANERS | Drycleaning Plants, Except Rugs |

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**D17** **DANNY'S DRY CLEANERS** **DRYCLEANERS** **S113137352**
**SE** **2239 N TUSTIN AVE** **HAZNET** **N/A**
**< 1/8** **SANTA ANA, CA 92705** **HWTS**
**0.076 mi.**
**401 ft.** **Site 3 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

DRYCLEANERS:

| | |
|---|---|
| Name: | SB JOO INC |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 927057820 |
| EPA Id: | CAL000398615 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 07/14/2014 |
| Facility Active: | Yes |
| Inactive Date: | Not reported |
| Facility Addr2: | Not reported |
| Owner Name: | SB JOO INC |
| Owner Address: | 2239 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner Telephone: | 7145472121 |
| Contact Name: | SEONG BONG JOO |
| Contact Address: | 2239 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| Contact Telephone: | 7145472121 |
| Contact Fax: | Not reported |
| Mailing Name: | Not reported |
| Mailing Address 1: | 2239 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | SANTA ANA |
| Mailing State: | CA |
| Mailing Zip: | 927057820 |
| Owner Fax: | Not reported |
| Region Code: | 4 |
| Latitude: | 0 |
| Longitude: | 0 |

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | DANNY'S CLEANERS, LEE, JUNG HON |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 112392 |
| Application Number: | 328018 |
| Permit Number: | F7443 |
| Status: | S |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Representative Name: | JUNG HON LEE |
| Representative Telephone: | 714 5472121 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 04/25/1997 |
| PO Issue Date: | 05/29/1997 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | DANNY'S CLEANERS, LEE, JUNG HON |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 112392 |
| Application Number: | 403639 |
| Permit Number: | F53646 |
| Status: | S |
| Representative Name: | JUNG HON LEE |
| Representative Telephone: | 714 5472121 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000603 |
| BCAT Description: | DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC |
| CCAT Number: | 04 |
| CCAT Description: | VAPOR RECOVERY UNIT COMPRESS & CONDENSE |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 07/05/2002 |
| PO Issue Date: | 07/19/2002 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | DANNY'S CLEANERS, LEE, JUNG HON |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 112392 |
| Application Number: | 466634 |
| Permit Number: | F89054 |
| Status: | S |
| Representative Name: | JUNG HON LEE |
| Representative Telephone: | 714 5472121 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000603 |
| BCAT Description: | DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 03/20/2007 |
| PO Issue Date: | 04/20/2007 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | DANNY'S CLEANERS, LEE, JUNG HON |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 112392 |
| Application Number: | 553279 |
| Permit Number: | G26227 |
| Status: | S |
| Representative Name: | JUNG HON LEE |
| Representative Telephone: | 714 5472121 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000233 |
| BCAT Description: | DRY CLEANING EQUIP PETROLEUM SOLVENT |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 06/18/2013 |
| PO Issue Date: | 08/10/2013 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | SB JOO, INC. DBA DANNY'S CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 176829 |
| Application Number: | 563448 |
| Permit Number: | Not reported |
| Status: | A |
| Representative Name: | SEONG BONG JOO |
| Representative Telephone: | 714 5472121 |
| Permit Status: | Not reported |
| BCAT Number: | 000603 |
| BCAT Description: | DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 04/08/2014 |
| PO Issue Date: | 12/31/9999 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | SB JOO, INC. DBA DANNY'S CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 176829 |
| Application Number: | 563449 |
| Permit Number: | Not reported |
| Status: | A |
| Representative Name: | SEONG BONG JOO |
| Representative Telephone: | 714 5472121 |
| Permit Status: | Not reported |
| BCAT Number: | 000233 |
| BCAT Description: | DRY CLEANING EQUIP PETROLEUM SOLVENT |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Application Date: | 04/08/2014 |
| PO Issue Date: | 12/31/9999 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | SB JOO, INC. DBA DANNY'S CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 176829 |
| Application Number: | 564503 |
| Permit Number: | G31628 |
| Status: | A |
| Representative Name: | SEONG BONG JOO |
| Representative Telephone: | 714 5472121 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000233 |
| BCAT Description: | DRY CLEANING EQUIP PETROLEUM SOLVENT |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.3798828 |
| Application Date: | 04/08/2014 |
| PO Issue Date: | 06/19/2014 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

HAZNET:

| | |
|---|---|
| Name: | DANNY'S DRY CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057820 |
| Contact: | JUNG HON LEE |
| Telephone: | 7145472121 |
| Mailing Name: | Not reported |
| Mailing Address: | 2239 N TUSTIN AVE |

| | |
|---|---|
| Year: | 2008 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Disposal Method: | H020 - Solvents Recovery |
| Tons: | Not reported |

| | |
|---|---|
| Year: | 2008 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H020 - Solvents Recovery |
| Tons: | Not reported |

| | |
|---|---|
| Year: | 2008 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | H020 - Solvents Recovery |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Tons: | 0.1251 |
| | |
| Year: | 2007 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Disposal Method: | H020 - Solvents Recovery |
| Tons: | Not reported |
| | |
| Year: | 2007 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | H020 - Solvents Recovery |
| Tons: | 0.1251 |
| | |
| Year: | 2007 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H020 - Solvents Recovery |
| Tons: | Not reported |
| | |
| Year: | 2006 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.) |
| Disposal Method: | R01 - Recycler |
| Tons: | Not reported |
| | |
| Year: | 2006 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | - |
| Disposal Method: | R01 - Recycler |
| Tons: | Not reported |
| | |
| Year: | 2006 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.22935 |
| | |
| Year: | 2006 |
| Gepaid: | CAL000294409 |
| TSD EPA ID: | NVR000076158 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | R01 - Recycler |
| Tons: | Not reported |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

Click this hyperlink while viewing on your computer to access additional CA HAZNET: detail in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000294409 |
| | |
| Shipment Date: | 20080407 |
| Creation Date: | 8/25/2008 18:30:24 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000380371GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080407 |
| Creation Date: | 8/25/2008 18:30:24 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000380371GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | Not reported |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Shipment Date: | 20080407 |
| Creation Date: | 8/25/2008 18:30:24 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000380371GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080407 |
| Creation Date: | 8/25/2008 18:30:24 |
| Receipt Date: | 20080410 |
| Manifest ID: | 000380371GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000294409 |

| | |
|---|---|
| Shipment Date: | 20071017 |
| Creation Date: | 3/18/2008 18:30:24 |
| Receipt Date: | 20071022 |
| Manifest ID: | 000265411GBF |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20071017 |
| Creation Date: | 3/18/2008 18:30:24 |
| Receipt Date: | 20071022 |
| Manifest ID: | 000265411GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | Not reported |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20071017 |
| Creation Date: | 3/18/2008 18:30:24 |
| Receipt Date: | 20071022 |
| Manifest ID: | 000265411GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20071017 |
| Creation Date: | 3/18/2008 18:30:24 |
| Receipt Date: | 20071022 |
| Manifest ID: | 000265411GBF |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H020 - Solvents Recovery |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL000294409 |
| | |
| Shipment Date: | 20060427 |
| Creation Date: | 8/24/2006 18:32:58 |
| Receipt Date: | 20060430 |
| Manifest ID: | 24996938 |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060427 |
| Creation Date: | 8/24/2006 18:32:58 |
| Receipt Date: | 20060430 |
| Manifest ID: | 24996938 |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc. |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060427 |
| Creation Date: | 8/24/2006 18:32:58 |
| Receipt Date: | 20060430 |
| Manifest ID: | 24996938 |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060427 |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Creation Date: | 8/24/2006 18:32:58 |
| Receipt Date: | 20060430 |
| Manifest ID: | 24996938 |
| Trans EPA ID: | CAR000166827 |
| Trans Name: | AMERICAN INDUSTRIAL SERVICES |
| Trans 2 EPA ID: | CAR000161836 |
| Trans 2 Name: | TECHNICHEM INC |
| TSDF EPA ID: | NVR000076158 |
| Trans Name: | RESOLVENT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.22935 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | SB JOO INC |
| Address: | 2239 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057820 |
| EPA ID: | CAL000398615 |
| Inactive Date: | Not reported |
| Create Date: | 07/14/2014 |
| Last Act Date: | 08/25/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 2239 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927057820 |
| Owner Name: | SB JOO INC |
| Owner Address: | 2239 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927057820 |
| Contact Name: | SEONG BONG JOO |
| Contact Address: | 2239 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000398615 |
| Create Date: | 2014-07-14 08:59:02.250 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| Issued EPA ID Date: | 2014-07-14 08:59:02.23700 |
| Inactive Date: | Not reported |
| Facility Name: | SB JOO INC |
| Facility Address: | 2239 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |

**DANNY'S DRY CLEANERS (Continued)** **S113137352**

| | |
|---|---|
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927057820 |

| | |
|---|---|
| Name: | DANNY'S DRY CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057820 |
| EPA ID: | CAL000294409 |
| Inactive Date: | 06/30/2014 |
| Create Date: | 05/23/2005 |
| Last Act Date: | 11/14/2014 |
| Mailing Name: | JUNG HON LEE |
| Mailing Address: | 2239 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927057820 |
| Owner Name: | JUNG HON LEE |
| Owner Address: | 8260 E BROOKDALE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | ANAHEIM, CA 928070000 |
| Contact Name: | JUNG HON LEE |
| Contact Address: | 2239 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057820 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000294409 |
| Create Date: | 2005-05-23 11:16:47.283 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| Issued EPA ID Date: | 2005-05-23 11:16:47.23700 |
| Inactive Date: | 2014-06-30 00:00:00 |
| Facility Name: | DANNY'S DRY CLEANERS |
| Facility Address: | 2239 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927057820 |

---

**D18** **DANNY'S CLEANERS** **DRYCLEANERS** **S121693267**
**SE** **2239 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.076 mi.**
**401 ft.** **Site 4 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | DANNY'S CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 100518 |
| Application Number: | 290099 |
| Permit Number: | D81136 |
| Status: | S |
| Representative Name: | DANNY DUGAN |
| Representative Telephone: | 714 5472121 |

**DANNY'S CLEANERS (Continued)** **S121693267**

| | |
|---|---|
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | 04 |
| CCAT Description: | VAPOR RECOVERY UNIT COMPRESS & CONDENSE |
| UTM East: | 0 |
| UTM North: | 0 |
| Application Date: | 02/24/1994 |
| PO Issue Date: | 03/08/1994 |
| NAICS Code: | 812320 |
| SIC Code: | Not reported |

---

**D19** **DANNY'S DRY CLEANERS** **DRYCLEANERS** **S108746056**
**SE** **2239 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.076 mi.**
**401 ft.** **Site 5 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

DRYCLEANERS:

| | |
|---|---|
| Name: | DANNY'S DRY CLEANERS |
| Address: | 2239 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 927057820 |
| EPA Id: | CAL000294409 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 05/23/2005 |
| Facility Active: | No |
| Inactive Date: | 06/30/2014 |
| Facility Addr2: | Not reported |
| Owner Name: | JUNG HON LEE |
| Owner Address: | 8260 E BROOKDALE |
| Owner Address 2: | Not reported |
| Owner Telephone: | 7145472121 |
| Contact Name: | JUNG HON LEE |
| Contact Address: | 2239 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| Contact Telephone: | 7145472121 |
| Contact Fax: | 0 |
| Mailing Name: | JUNG HON LEE |
| Mailing Address 1: | 2239 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | SANTA ANA |
| Mailing State: | CA |
| Mailing Zip: | 927057820 |
| Owner Fax: | 0 |
| Region Code: | 4 |
| Latitude: | 33.7664 |
| Longitude: | -117.835734 |

**B20 NNE < 1/8 0.077 mi. 404 ft.** | **CANYON CREST CLEANERS 2380 N TUSTIN AVE SANTA ANA, CA 92705** | **DRYCLEANERS HAZNET HWTS** | **S111417754 N/A**

**Site 4 of 8 in cluster B**

**Relative: Higher**

**Actual: 195 ft.**

DRYCLEANERS:

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 927051659 |
| EPA Id: | CAL000156906 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 06/21/1995 |
| Facility Active: | No |
| Inactive Date: | 06/30/2011 |
| Facility Addr2: | Not reported |
| Owner Name: | STEVE KOH |
| Owner Address: | 2380 N TUSTIN AVE STE A |
| Owner Address 2: | Not reported |
| Owner Telephone: | 7148356644 |
| Contact Name: | STEVE KOH OWNER |
| Contact Address: | 2380 N TUSTIN AVE STE A |
| Contact Address 2: | Not reported |
| Contact Telephone: | 7148356644 |
| Contact Fax: | 0 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 2380 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | SANTA ANA |
| Mailing State: | CA |
| Mailing Zip: | 927050000 |
| Owner Fax: | 0 |
| Region Code: | 4 |
| Latitude: | 33.76907 |
| Longitude: | -117.83579 |

HAZNET:

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927051659 |
| Contact: | STEVE KOH OWNER |
| Telephone: | 7148356644 |
| Mailing Name: | Not reported |
| Mailing Address: | 2380 N TUSTIN AVE |
| | |
| Year: | 2008 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | TXD077603371 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.125 |
| | |
| Year: | 2007 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | TXD077603371 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 1.115 |
| | |
| Year: | 2005 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.6575 |
| | |
| Year: | 2005 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | - |
| Tons: | 0.5 |
| | |
| Year: | 2005 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | - |
| Disposal Method: | H01 - Transfer Station |
| Tons: | Not reported |
| | |
| Year: | 2004 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.15 |
| | |
| Year: | 2001 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAD008302903 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | - |
| Tons: | 0 |
| | |
| Year: | 2001 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAD008302903 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | - |
| Tons: | 0 |
| | |
| Year: | 2001 |
| Gepaid: | CAL000156906 |
| TSD EPA ID: | CAD008302903 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.8 |
| | |
| Year: | 2000 |
| Gepaid: | CAL000156906 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| TSD EPA ID: | AZD009015389 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.2107 |

Click this hyperlink while viewing on your computer to access
8 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000156906 |
| Shipment Date: | 20080920 |
| Creation Date: | 2/2/2009 18:30:08 |
| Receipt Date: | 20080925 |
| Manifest ID: | 001493117SKS |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.125 |
| Waste Quantity: | 250 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1995 |
| Gen EPA ID: | CAL000156906 |
| Shipment Date: | 19951010 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951011 |
| Manifest ID: | 95946213 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19951010 |
| Creation Date: | 7/26/1996 0:00:00 |
| Receipt Date: | 19951011 |
| Manifest ID: | 95946213 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 20001030 |
| Creation Date: | 3/5/2001 0:00:00 |
| Receipt Date: | 20001115 |
| Manifest ID: | 20582804 |
| Trans EPA ID: | CAD983657719 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | CAD981446156 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20001030 |
| Creation Date: | 3/5/2001 0:00:00 |
| Receipt Date: | 20001115 |
| Manifest ID: | 20582804 |
| Trans EPA ID: | CAD983657719 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | CAD981446156 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | AZD009015389 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 19960821 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19960822 |
| Manifest ID: | 96584238 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960821 |
| Creation Date: | 5/21/1997 0:00:00 |
| Receipt Date: | 19960822 |
| Manifest ID: | 96584238 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960219 |
| Creation Date: | 10/16/1996 0:00:00 |
| Receipt Date: | 19960220 |
| Manifest ID: | 95926028 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960219 |
| Creation Date: | 10/16/1996 0:00:00 |
| Receipt Date: | 19960220 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Manifest ID: | 95926028 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1999 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 19991102 |
| Creation Date: | 8/1/2000 0:00:00 |
| Receipt Date: | 19991105 |
| Manifest ID: | 99555943 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19991102 |
| Creation Date: | 8/1/2000 0:00:00 |
| Receipt Date: | 19991105 |
| Manifest ID: | 99555943 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990429 |
| Creation Date: | 9/1/1999 0:00:00 |
| Receipt Date: | 19990430 |
| Manifest ID: | 99102068 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990429 |
| Creation Date: | 9/1/1999 0:00:00 |
| Receipt Date: | 19990430 |
| Manifest ID: | 99102068 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| | perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1997 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 19971114 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971117 |
| Manifest ID: | 96776085 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19971114 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971117 |
| Manifest ID: | 96776085 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Quantity Tons: | 0.2293 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970424 |
| Creation Date: | 7/17/1997 0:00:00 |
| Receipt Date: | 19970425 |
| Manifest ID: | 96834700 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970424 |
| Creation Date: | 7/17/1997 0:00:00 |
| Receipt Date: | 19970425 |
| Manifest ID: | 96834700 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2293 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAL000156906 |
| Shipment Date: | 20041014 |
| Creation Date: | 12/21/2004 18:31:57 |
| Receipt Date: | 20041021 |
| Manifest ID: | 22644018 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1998 |
| Gen EPA ID: | CAL000156906 |
| Shipment Date: | 19981029 |
| Creation Date: | 1/21/1999 0:00:00 |
| Receipt Date: | 19981030 |
| Manifest ID: | 98475435 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Shipment Date: | 19981029 |
| Creation Date: | 1/21/1999 0:00:00 |
| Receipt Date: | 19981030 |
| Manifest ID: | 98475435 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980506 |
| Creation Date: | 8/3/1998 0:00:00 |
| Receipt Date: | 19980507 |
| Manifest ID: | 98024119 |
| Trans EPA ID: | CO0000195172 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2107 |
| Waste Quantity: | 0.25 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980506 |
| Creation Date: | 8/3/1998 0:00:00 |
| Receipt Date: | 19980507 |
| Manifest ID: | 98024119 |
| Trans EPA ID: | CO0000195172 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 20011217 |
| Creation Date: | 2/13/2002 0:00:00 |
| Receipt Date: | 20011221 |
| Manifest ID: | 21388693 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | D001 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20011217 |
| Creation Date: | 2/13/2002 0:00:00 |
| Receipt Date: | 20011221 |
| Manifest ID: | 21388693 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20011217 |
| Creation Date: | 2/13/2002 0:00:00 |
| Receipt Date: | 20011221 |
| Manifest ID: | 21388693 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010808 |
| Creation Date: | 10/3/2001 0:00:00 |
| Receipt Date: | 20010816 |
| Manifest ID: | 21139800 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | D001 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010808 |
| Creation Date: | 10/3/2001 0:00:00 |
| Receipt Date: | 20010816 |
| Manifest ID: | 21139800 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010808 |
| Creation Date: | 10/3/2001 0:00:00 |
| Receipt Date: | 20010816 |
| Manifest ID: | 21139800 |
| Trans EPA ID: | CAR000095927 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.275 |
| Waste Quantity: | 550 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010319 |
| Creation Date: | 5/31/2001 0:00:00 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Receipt Date: | 20010329 |
| Manifest ID: | 20826477 |
| Trans EPA ID: | CAR000036921 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | - Not reported |
| Quantity Tons: | 0 |
| Waste Quantity: | 0 |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010319 |
| Creation Date: | 5/31/2001 0:00:00 |
| Receipt Date: | 20010329 |
| Manifest ID: | 20826477 |
| Trans EPA ID: | CAR000036921 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD008302903 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.275 |
| Waste Quantity: | 550 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000156906 |

| | |
|---|---|
| Shipment Date: | 20071120 |
| Creation Date: | 8/15/2011 16:07:07 |
| Receipt Date: | 20071130 |
| Manifest ID: | 000652018SKS |
| Trans EPA ID: | TXR000050930 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.99 |
| Waste Quantity: | 300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070312 |
| Creation Date: | 8/28/2007 18:30:20 |
| Receipt Date: | 20070319 |
| Manifest ID: | 000204784SKS |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.125 |
| Waste Quantity: | 250 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2005 |
| Gen EPA ID: | CAL000156906 |
| | |
| Shipment Date: | 20051214 |
| Creation Date: | 3/22/2006 18:31:02 |
| Receipt Date: | 20051229 |
| Manifest ID: | 24636149 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20051102 |
| Creation Date: | 3/15/2006 11:54:29 |
| Receipt Date: | Not reported |
| Manifest ID: | 24383395 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20051102 |
| Creation Date: | 7/12/2006 18:30:47 |
| Receipt Date: | 20051112 |
| Manifest ID: | 24383395 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20051102 |
| Creation Date: | 7/12/2006 18:30:47 |
| Receipt Date: | 20051112 |
| Manifest ID: | 24383395 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050628 |
| Creation Date: | 10/13/2005 18:31:00 |
| Receipt Date: | 20050707 |
| Manifest ID: | 24360170 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050628 |
| Creation Date: | 10/13/2005 18:31:00 |
| Receipt Date: | 20050707 |
| Manifest ID: | 24360170 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.3575 |
| Waste Quantity: | 715 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050210 |
| Creation Date: | 4/2/2005 18:31:07 |
| Receipt Date: | 20050217 |
| Manifest ID: | 23741989 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.25 |
| Waste Quantity: | 500 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927051659 |
| EPA ID: | CAL000156906 |
| Inactive Date: | 06/30/2011 |
| Create Date: | 06/21/1995 |
| Last Act Date: | 07/28/2011 |
| Mailing Name: | Not reported |
| Mailing Address: | 2380 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927050000 |

**CANYON CREST CLEANERS (Continued)** **S111417754**

| | |
|---|---|
| Owner Name: | STEVE KOH |
| Owner Address: | 2380 N TUSTIN AVE STE A |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927051659 |
| Contact Name: | STEVE KOH OWNER |
| Contact Address: | 2380 N TUSTIN AVE STE A |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927051659 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000156906 |
| Create Date: | 2004-10-20 10:23:57.043 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| Issued EPA ID Date: | 1995-06-21 00:00:00 |
| Inactive Date: | 2011-06-30 00:00:00 |
| Facility Name: | CANYON CREST CLEANERS |
| Facility Address: | 2380 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927051659 |

---

**B21** **KING & CREST** **EDR Hist Cleaner** **1018882425**
**NNE** **2380 N TUSTIN AV** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.077 mi.**
**404 ft.** **Site 5 of 8 in cluster B**

**Relative:** EDR Hist Cleaner
**Higher**

**Actual:**
**195 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1987 | KING & CREST | Power Laundries, Family And Commercial |
| 1988 | KING & CREST | Power Laundries, Family And Commercial |
| 1995 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 1996 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 1997 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 1998 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 1999 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2000 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2001 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2002 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2003 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2004 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2005 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2006 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2007 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2008 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2009 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2010 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2011 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2013 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |
| 2014 | CANYON CREST CLEANERS | Drycleaning Plants, Except Rugs |

**B22 NNE < 1/8 0.077 mi. 404 ft.** | **CANYON CREST CLEANERS**
**2380 N TUSTIN AVE UNIT A**
**SANTA ANA, CA 92705** | **DRYCLEANERS** | **S121693507**
**N/A**

**Site 6 of 8 in cluster B**

**Relative: Higher**

**Actual: 195 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |
| Application Number: | 106559 |
| Permit Number: | M31026 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | 10 |
| CCAT Description: | SOLVATION UNIT |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 02/09/1983 |
| PO Issue Date: | 05/18/1983 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |
| Application Number: | 127949 |
| Permit Number: | M43097 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | 10 |
| CCAT Description: | SOLVATION UNIT |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 12/10/1984 |
| PO Issue Date: | 03/28/1985 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |
| Application Number: | 160685 |
| Permit Number: | M60834 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |

**CANYON CREST CLEANERS (Continued)** **S121693507**

| | |
|---|---|
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | 04 |
| CCAT Description: | VAPOR RECOVERY UNIT COMPRESS & CONDENSE |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 09/11/1987 |
| PO Issue Date: | 03/05/1988 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |
| Application Number: | 279100 |
| Permit Number: | D71280 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 03/10/1993 |
| PO Issue Date: | 03/17/1993 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |
| Application Number: | 450245 |
| Permit Number: | F79485 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000233 |
| BCAT Description: | DRY CLEANING EQUIP PETROLEUM SOLVENT |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 11/02/2005 |
| PO Issue Date: | 11/30/2005 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

| | |
|---|---|
| Name: | CANYON CREST CLEANERS |
| Address: | 2380 N TUSTIN AVE UNIT A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 10285 |

**CANYON CREST CLEANERS (Continued)** **S121693507**

| | |
|---|---|
| Application Number: | 11001A |
| Permit Number: | S07937 |
| Status: | S |
| Representative Name: | STEVE KOH |
| Representative Telephone: | 714 8356644 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.59698486 |
| UTM North: | 3736.4289551 |
| Application Date: | 12/31/9999 |
| PO Issue Date: | 01/01/1983 |
| NAICS Code: | Not reported |
| SIC Code: | 7296 |

---

**B23** **CANYON CREST CLEANERS** **RCRA NonGen / NLR** **1025868414**
**NNE** **2380 N TUSTIN AVE STE A** **CAL000365761**
**< 1/8** **SANTA ANA, CA 92705**
**0.077 mi.**
**404 ft.** **Site 7 of 8 in cluster B**

**Relative:**
**Higher**

**Actual:**
**195 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20110718 |
| Handler Name: | CANYON CREST CLEANERS | |
| Handler Address: | | 2380 N TUSTIN AVE STE A |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-1659 |
| EPA ID: | | CAL000365761 |
| Contact Name: | | IN YONG NA |
| Contact Address: | | 4730 MADRID PLZ |
| Contact City,State,Zip: | | BUENA PARK, CA 90621-0000 |
| Contact Telephone: | | 714-883-4478 |
| Contact Fax: | | 000-000-0000 |
| Contact Email: | | JEFFIYNA@HOTMAIL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2380 N TUSTIN AVE STE A |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705-1659 |
| Owner Name: | | IN YONG NA |
| Owner Type: | | Other |
| Operator Name: | | IN YONG NA |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |

**CANYON CREST CLEANERS (Continued)** **1025868414**

| | |
|---|---|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20190910 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | IN YONG NA |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 4730 MADRID PLZ |

**CANYON CREST CLEANERS (Continued)** **1025868414**

Owner/Operator City,State,Zip: BUENA PARK, CA 90621-0000
Owner/Operator Telephone: 714-883-4478
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: IN YONG NA
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4730 MADRID PLZ
Owner/Operator City,State,Zip: BUENA PARK, CA 90621-0000
Owner/Operator Telephone: 714-883-4478
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20110718
Handler Name: CANYON CREST CLEANERS
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: Not reported
Recognized Trader Exporter: Not reported
Spent Lead Acid Battery Importer: Not reported
Spent Lead Acid Battery Exporter: Not reported
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**B24** **CANYON CREST CLEANERS** **DRYCLEANERS** **S121696556**
**NNE** **2380 N TUSTIN AVE UNIT A** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.077 mi.**
**404 ft.** **Site 8 of 8 in cluster B**

**Relative:**
**Higher**

**Actual:**
**195 ft.**

DRYCLEAN SOUTH COAST:
Name: CANYON CREST CLEANERS
Address: 2380 N TUSTIN AVE UNIT A
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 168024
Application Number: 523813
Permit Number: G15387

**CANYON CREST CLEANERS (Continued)** **S121696556**

| | |
|---|---|
| Status: | A |
| Representative Name: | IN YONG NA |
| Representative Telephone: | 714 8356644 |
| Permit Status: | ACTIVE |
| BCAT Number: | 000233 |
| BCAT Description: | DRY CLEANING EQUIP PETROLEUM SOLVENT |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.60998535 |
| UTM North: | 3736.6699219 |
| Application Date: | 06/14/2011 |
| PO Issue Date: | 10/18/2011 |
| NAICS Code: | 812320 |
| SIC Code: | 7212 |

---

**D25** **EXXON SERVICE STATION #1463** **LUST** **S104164235**
**SSE** **2230 TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.078 mi.**
**414 ft.** **Site 6 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

LUST REG 8:

| | |
|---|---|
| Name: | EXXON SERVICE STATION #1463 |
| Address: | 2230 TUSTIN AVE |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Pollution Characterization |
| Case Number: | 083001594T |
| Local Case Num: | Not reported |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | SANTA CLARA |
| Enf Type: | CLOS |
| Funding: | Not reported |
| How Discovered: | Not reported |
| How Stopped: | Not reported |
| Leak Cause: | Not reported |
| Leak Source: | Not reported |
| Global ID: | T0605901213 |
| How Stopped Date: | Not reported |
| Enter Date: | 7/23/1990 |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | 7/23/1990 |
| Discover Date: | Not reported |
| Enforcement Date: | 1/1/1965 |
| Close Date: | 5/14/1991 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | 1/1/1965 |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | 7/23/1990 |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |

**EXXON SERVICE STATION #1463 (Continued)** **S104164235**

| | |
|---|---|
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.7661862 |
| Longitude: | -117.8360778 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |
| MTBE Class: | * |
| Staff: | CAB |
| Staff Initials: | JB |
| Lead Agency: | Local Agency |
| Local Agency: | Santa Ana, Orange County |
| Hydr Basin #: | COASTAL PLAIN OF ORA |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |
| Summary: | Not reported |

---

**D26** **EXXON SERVICE STATION 71463** **SWEEPS UST** **S106925988**
**SSE** **2230 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.078 mi.**
**414 ft.** **Site 7 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | EXXON SERVICE STATION 71463 |
| Address: | 2230 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 23992 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 07-16-93 |
| Action Date: | 07-16-93 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 4 |
| SWRCB Tank Id: | 30-020-023992-000004 |
| Tank Status: | A |
| Capacity: | 1000 |
| Active Date: | 10-08-90 |
| Tank Use: | OIL |
| STG: | W |
| Content: | WASTE OIL |
| Number Of Tanks: | 1 |

**D27 SSE < 1/8 0.078 mi. 414 ft.** | **EXXON SERVICE STATION 71463**
**2230 N TUSTIN**
**SANTA ANA, CA 92701**

**Site 8 of 16 in cluster D**

**LUST**
**CA FID UST**
**Cortese**
**CERS**

**S101629976**
**N/A**

**Relative: Lower**

**Actual: 190 ft.**

LUST:

| | |
|---|---|
| Name: | EXXON SERVICE STATION #1463 |
| Address: | 2230 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Lead Agency: | SANTA ANA, CITY OF |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901213 |
| Global Id: | T0605901213 |
| Latitude: | 33.7661862 |
| Longitude: | -117.8360778 |
| Status: | Completed - Case Closed |
| Status Date: | 05/14/1991 |
| Case Worker: | CC |
| RB Case Number: | 083001594T |
| Local Agency: | SANTA ANA, CITY OF |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901213 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | CARL BERNHARDT |
| Organization Name: | SANTA ANA RWQCB (REGION 8) |
| Address: | 3737 MAIN STREET, SUITE 500 |
| City: | RIVERSIDE |
| Email: | carl.bernhardt@waterboards.ca.gov |
| Phone Number: | 9517824495 |

| | |
|---|---|
| Global Id: | T0605901213 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | CHRISTOPHER CIRAULO |
| Organization Name: | SANTA ANA, CITY OF |
| Address: | 1439 S. BROADWAY |
| City: | SANTA ANA |
| Email: | cciraulo@santa-ana.org |
| Phone Number: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901213 |
| Action Type: | Other |
| Date: | 07/17/1990 |
| Action: | Leak Reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901213 |
| Status: | Open - Case Begin Date |
| Status Date: | 07/17/1990 |

| | |
|---|---|
| Global Id: | T0605901213 |
| Status: | Open - Site Assessment |

**EXXON SERVICE STATION 71463 (Continued)** **S101629976**

Status Date: 07/23/1990

Global Id: T0605901213
Status: Completed - Case Closed
Status Date: 05/14/1991

CA FID UST:
Facility ID: 30001056
Regulated By: UTNKA
Regulated ID: 00023992
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 7148368641
Mail To: Not reported
Mailing Address: 4550 DACOMA
Mailing Address 2: Not reported
Mailing City,St,Zip: SANTA ANA 92701
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:
Name: EXXON SERVICE STATION #1463
Address: 2230 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92701
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0605901213
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: EXXON SERVICE STATION #1463
Address: 2230 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92701

**EXXON SERVICE STATION 71463 (Continued)** **S101629976**

| | |
|---|---|
| Site ID: | 260495 |
| CERS ID: | T0605901213 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | CARL BERNHARDT - SANTA ANA RWQCB (REGION 8) |
| Entity Title: | Not reported |
| Affiliation Address: | 3737 MAIN STREET, SUITE 500 |
| Affiliation City: | RIVERSIDE |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9517824495 |

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | CHRISTOPHER CIRAULO - SANTA ANA, CITY OF |
| Entity Title: | Not reported |
| Affiliation Address: | 1439 S. BROADWAY |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**D28** **EXXON SERVICE STATION** **HIST UST** **U001578082**
**SSE** **2230 N TUSTIN** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.078 mi.**
**414 ft.** **Site 9 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

HIST UST:

| | |
|---|---|
| Name: | EXXON SERVICE STATION |
| Address: | 2230 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| File Number: | 0002E8C4 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E8C4.pdf |
| Region: | STATE |
| Facility ID: | 00000023992 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | Not reported |
| Telephone: | 7148368641 |
| Owner Name: | EXXON COMPANY U.S.A. |
| Owner Address: | 16945 NORTHCHASE BLVD. |
| Owner City,St,Zip: | HOUSTON, TX 77210 |
| Total Tanks: | 0004 |

| | |
|---|---|
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1981 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

**EXXON SERVICE STATION (Continued)** **U001578082**

| | |
|---|---|
| Tank Num: | 002 |
| Container Num: | 2 |
| Year Installed: | 1981 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 003 |
| Container Num: | 3 |
| Year Installed: | 1981 |
| Tank Capacity: | 00008000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 004 |
| Container Num: | 4 |
| Year Installed: | 1981 |
| Tank Capacity: | 00001000 |
| Tank Used for: | WASTE |
| Type of Fuel: | WASTE OIL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

Click here for Geo Tracker PDF:

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**D29** **EXXON SERVICE STATION** **SWEEPS UST** **S106925980**
**SSE** **2230 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.078 mi.**
**414 ft.** **Site 10 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**190 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | EXXON SERVICE STATION |
| Address: | 2230 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 23992 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-023992-000001 |
| Tank Status: | Not reported |
| Capacity: | 8000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 3 |

| | |
|---|---|
| Name: | EXXON SERVICE STATION |
| Address: | 2230 N TUSTIN AVE |

**EXXON SERVICE STATION (Continued)** **S106925980**

| | |
|---|---|
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 23992 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-023992-000002 |
| Tank Status: | Not reported |
| Capacity: | 8000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | EXXON SERVICE STATION |
| Address: | 2230 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 23992 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-023992-000003 |
| Tank Status: | Not reported |
| Capacity: | 8000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | LEADED |
| Number Of Tanks: | Not reported |

---

**D30** **RICHMOND EDWARD** **EDR Hist Auto** **1021026685**
**SSE** **2230 N TUSTIN** **N/A**
**< 1/8** **SANTA ANA, CA 92701**
**0.078 mi.**
**414 ft.** **Site 11 of 16 in cluster D**

**Relative:** **Lower** EDR Hist Auto

**Actual:** **190 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1969 | RICHMOND EDWARD | Gasoline Service Stations |
| 1971 | RICHMOND EDWARD | Gasoline Service Stations |
| 1975 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1976 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1977 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1978 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1979 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1980 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1982 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1983 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1985 | HAROLDS EXXON SERVICE | Gasoline Service Stations |

**RICHMOND EDWARD (Continued)** **1021026685**

| | | |
|---|---|---|
| 1986 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1987 | EXXON GAS STATION | Gasoline Service Stations |
| 1987 | HAROLDS EXXON SERVICE | Gasoline Service Stations |
| 1988 | EXXON GAS STATION | Gasoline Service Stations |
| 1989 | EXXON CORPORATION | Gasoline Service Stations |

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**31 ENE < 1/8 0.081 mi. 426 ft.**

**DANNYS ONE HOUR PHOTO**
**2323 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**RCRA-SQG** **1000323820**
**FINDS** **CAD981641202**
**ECHO**

**Relative: Lower**

**Actual: 192 ft.**

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 19870129 |
| Handler Name: | DANNYS ONE HOUR PHOTO |
| Handler Address: | 2323 N TUSTIN AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAD981641202 |
| Contact Name: | ENVIRONMENTAL MANAGER |
| Contact Address: | 2323 N TUSTIN AVE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-836-6857 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Other |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | CA |
| State District: | 4 |
| Mailing Address: | 2323 N TUSTIN AVE A |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | YI CHONG HON |
| Owner Type: | Private |
| Operator Name: | NOT REQUIRED |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |

**DANNYS ONE HOUR PHOTO (Continued)** **1000323820**

| | |
|---|---|
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20020627 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | YI CHONG HON |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | NOT REQUIRED |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |

**DANNYS ONE HOUR PHOTO (Continued)** **1000323820**

Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19870129
Handler Name: DANNYS ONE HOUR PHOTO
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002735737

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000323820
Registry ID: 110002735737
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002735737
Name: DANNYS ONE HOUR PHOTO
Address: 2323 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705

**E32 NE < 1/8 0.088 mi. 465 ft.** | **ALLEN TIRE CO 1694**
**2401 N TUSTIN AVE**
**SANTA ANA, CA 92705**
**Site 1 of 9 in cluster E** | **RCRA NonGen / NLR** | **1026493049**
**CAL000457852**

**Relative: Higher**
**Actual: 195 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20201030 |
| Handler Name: | ALLEN TIRE CO 1694 | |
| Handler Address: | | 2401 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-0000 |
| EPA ID: | | CAL000457852 |
| Contact Name: | | THOMAS GIANNONE |
| Contact Address: | | 200 HOLLEDER PKWY |
| Contact City,State,Zip: | | ROCHESTER, NY 14615 |
| Contact Telephone: | | 585-784-3378 |
| Contact Fax: | | 585-647-0947 |
| Contact Email: | | TOM.GIANNONE@MONRO.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 200 HOLLEDER PKWY |
| Mailing City,State,Zip: | | ROCHESTER, NY 14615 |
| Owner Name: | | MNRO HOLDINGS LLC DBA TIRE CHOICE |
| Owner Type: | | Other |
| Operator Name: | | THOMAS GIANNONE |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**ALLEN TIRE CO 1694 (Continued)** **1026493049**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20201106 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MNRO HOLDINGS LLC DBA TIRE CHOICE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 200 HOLLEDER PKWY |
| Owner/Operator City,State,Zip: | ROCHESTER, NY 14615 |
| Owner/Operator Telephone: | 585-784-3378 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | THOMAS GIANNONE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 200 HOLLEDER PKWY |
| Owner/Operator City,State,Zip: | ROCHESTER, NY 14615 |
| Owner/Operator Telephone: | 585-784-3378 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**ALLEN TIRE CO 1694 (Continued)** **1026493049**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20201030 |
| Handler Name: ALLEN TIRE CO 1694 | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

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**E33** **ALLEN FRED ENTERPRISES INC** **EDR Hist Auto** **1020307282**
**NE** **2401 N TUSTIN AVE** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.088 mi.**
**465 ft.** **Site 2 of 9 in cluster E**

**Relative:** EDR Hist Auto
**Higher**

**Actual:**
**195 ft.**

| Year: | Name: | Type: |
|---|---|---|
| 1972 | ORANGE COUNTY AUTOMOTIVE CTR | Gasoline Service Stations |
| 1973 | ORANGE COUNTY AUTOMOTIVE CTR | Gasoline Service Stations |
| 1974 | ORANGE COUNTY AUTOMOTIVE CTR | Auto And Home Supply Stores |
| 1975 | MILLER G W INC | General Automotive Repair Shops |
| 1976 | ORANGE COUNTY AUTOMOTIVE | Gasoline Service Stations |
| 1977 | MILLER G W INC | Gasoline Service Stations |
| 1977 | ORANGE COUNTY AUTOMOTIVE | Gasoline Service Stations |
| 1978 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1978 | MILLER G W INC | Gasoline Service Stations |
| 1979 | MILLER G W INC | Gasoline Service Stations |
| 1979 | MILLER G W INC | Gasoline Service Stations |
| 1979 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1979 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1980 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1980 | MILLER G W INC | Gasoline Service Stations |
| 1982 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1983 | CALIFORNIA CREATIONS INC | General Automotive Repair Shops |
| 1991 | ALLEN TIRE CO INC | Auto And Home Supply Stores |
| 1992 | ALLEN TIRE CO INC | Auto And Home Supply Stores |
| 1993 | ALLEN TIRE CO INC | Auto And Home Supply Stores |
| 1994 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 1995 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |

**ALLEN FRED ENTERPRISES INC (Continued)** **1020307282**

| | | |
|---|---|---|
| 1996 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 1997 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 1998 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 1999 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 2000 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 2001 | ALLEN FRED ENTERPRISES INC | Auto And Home Supply Stores |
| 2002 | FRED ALLEN ENTERPRISES INC | Auto And Home Supply Stores |
| 2003 | FRED ALLEN ENTERPRISES INC | Auto And Home Supply Stores |

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**E34**
**NE**
**< 1/8**
**0.088 mi.**
**465 ft.**

**G&M OIL CO #12**
**2401 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 3 of 9 in cluster E**

**SWEEPS UST** **S101589413**
**CA FID UST** **N/A**

**Relative:**
**Higher**

**Actual:**
**195 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | G&M OIL CO #12 |
| Address: | 2401 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 52506 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 1 |
| SWRCB Tank Id: | 30-020-052506-000001 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | LEADED |
| Number Of Tanks: | 5 |

| | |
|---|---|
| Name: | G&M OIL CO #12 |
| Address: | 2401 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 52506 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 2 |
| SWRCB Tank Id: | 30-020-052506-000002 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | G&M OIL CO #12 |
| Address: | 2401 N TUSTIN AVE |

**G&M OIL CO #12 (Continued)** **S101589413**

| | |
|---|---|
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 52506 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 3 |
| SWRCB Tank Id: | 30-020-052506-000003 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | G&M OIL CO #12 |
| Address: | 2401 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 52506 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 4 |
| SWRCB Tank Id: | 30-020-052506-000004 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | G&M OIL CO #12 |
| Address: | 2401 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 52506 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-24-92 |
| Action Date: | 02-24-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 5 |
| SWRCB Tank Id: | 30-020-052506-000005 |
| Tank Status: | A |
| Capacity: | 10000 |
| Active Date: | 02-24-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | DIESEL |
| Number Of Tanks: | Not reported |

**G&M OIL CO #12 (Continued)** **S101589413**

CA FID UST:

| | |
|---|---|
| Facility ID: | 30011094 |
| Regulated By: | UTNKA |
| Regulated ID: | 00052506 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7149739861 |
| Mail To: | Not reported |
| Mailing Address: | 2401 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92705 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**E35**
**NE**
**< 1/8**
**0.088 mi.**
**465 ft.**

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO** **HIST UST** **S113163920**
**2401 N TUSTIN AVE** **HAZNET** **N/A**
**SANTA ANA, CA 92705** **HWTS**

**Site 4 of 9 in cluster E**

**Relative:**
**Higher**

**Actual:**
**195 ft.**

HIST UST:

| | |
|---|---|
| Name: | G AND M OIL 12 |
| Address: | 2401 N TUSTIN AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| File Number: | 0002E968 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E968.pdf |
| Region: | Not reported |
| Facility ID: | Not reported |
| Facility Type: | Not reported |
| Other Type: | Not reported |
| Contact Name: | Not reported |
| Telephone: | Not reported |
| Owner Name: | Not reported |
| Owner Address: | Not reported |
| Owner City,St,Zip: | Not reported |
| Total Tanks: | Not reported |
| | |
| Tank Num: | Not reported |
| Container Num: | Not reported |
| Year Installed: | Not reported |
| Tank Capacity: | Not reported |
| Tank Used for: | Not reported |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Not reported |

Click here for Geo Tracker PDF:

HAZNET:

| | |
|---|---|
| Name: | ALLEN TIRE CO |
| Address: | 2401 N TUSTIN AVE |
| Address 2: | Not reported |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| City,State,Zip: | SANTA ANA, CA 907133056 |
| Contact: | AMANDA BLOOM |
| Telephone: | 5624970370 |
| Mailing Name: | Not reported |
| Mailing Address: | 5855 E CARSON ST |
| | |
| Year: | 2019 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.02250 |
| | |
| Year: | 2019 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.16680 |
| | |
| Year: | 2018 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.10000 |
| | |
| Year: | 2017 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.05 |
| | |
| Year: | 2015 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.1251 |
| | |
| Year: | 2013 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.1251 |
| | |
| Year: | 2012 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | CAT080013352 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.0834 |
| | |
| Year: | 2011 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | TXD077603371 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.0525 |
| | |
| Year: | 2010 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | TXD077603371 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.08 |
| | |
| Year: | 2009 |
| Gepaid: | CAL912912940 |
| TSD EPA ID: | TXD077603371 |
| CA Waste Code: | 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L |
| Disposal Method: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Tons: | 0.08 |

Click this hyperlink while viewing on your computer to access
6 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2011 |
| Gen EPA ID: | CAL912912940 |
| | |
| Shipment Date: | 20110722 |
| Creation Date: | 12/20/2011 18:30:24 |
| Receipt Date: | 20110802 |
| Manifest ID: | 002841692SKS |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.0225 |
| Waste Quantity: | 45 |
| Quantity Unit: | P |
| Additional Code 1: | F001 |
| Additional Code 2: | D039 |
| Additional Code 3: | D001 |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Shipment Date: | 20110304 |
| Creation Date: | 8/25/2011 18:30:11 |
| Receipt Date: | 20110315 |
| Manifest ID: | 002649915SKS |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F002 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.03 |
| Waste Quantity: | 60 |
| Quantity Unit: | P |
| Additional Code 1: | F001 |
| Additional Code 2: | D039 |
| Additional Code 3: | D001 |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL912912940 |

| | |
|---|---|
| Shipment Date: | 20130808 |
| Creation Date: | 10/16/2013 22:15:14 |
| Receipt Date: | 20130814 |
| Manifest ID: | 011883039JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL912912940 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Shipment Date: | 20170306 |
| Creation Date: | 5/25/2017 18:30:52 |
| Receipt Date: | 20170310 |
| Manifest ID: | 016853942JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | US ECOLOGY VERNON, INC. |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAL912912940 |

| | |
|---|---|
| Shipment Date: | 20030806 |
| Creation Date: | 7/26/2004 18:31:36 |
| Receipt Date: | 20030813 |
| Manifest ID: | 22879798 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.063 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL912912940 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Shipment Date: | 20011002 |
| Creation Date: | 12/17/2001 0:00:00 |
| Receipt Date: | 20011008 |
| Manifest ID: | 21454329 |
| Trans EPA ID: | SCR000075150 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0588 |
| Waste Quantity: | 14 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1995 |
| Gen EPA ID: | CAL912912940 |

| | |
|---|---|
| Shipment Date: | 19950613 |
| Creation Date: | 4/2/1996 0:00:00 |
| Receipt Date: | 19950616 |
| Manifest ID: | 95514185 |
| Trans EPA ID: | ILD984908202 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | ILD984908202 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD093459485 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD093459485 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0144 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19950420 |
| Creation Date: | 4/2/1996 0:00:00 |
| Receipt Date: | 19950428 |
| Manifest ID: | 95515323 |
| Trans EPA ID: | ILD984908202 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | ILD984908202 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD093459485 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD093459485 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0144 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 20040422 |
| Creation Date: | 10/14/2004 15:19:37 |
| Receipt Date: | 20040430 |
| Manifest ID: | 23473698 |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D039 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.0168 |
| Waste Quantity: | 4 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 20090911 |
| Creation Date: | 3/5/2010 18:30:17 |
| Receipt Date: | 20090922 |
| Manifest ID: | 002160291SKS |
| Trans EPA ID: | TXR000050930 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.08 |
| Waste Quantity: | 160 |
| Quantity Unit: | P |
| Additional Code 1: | D008 |
| Additional Code 2: | D007 |
| Additional Code 3: | D006 |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 20120606 |
| Creation Date: | 9/17/2012 22:15:26 |
| Receipt Date: | 20120613 |
| Manifest ID: | 010162780JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.0834 |
| Waste Quantity: | 20 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 20150403 |
| Creation Date: | 6/25/2015 22:15:58 |
| Receipt Date: | 20150408 |
| Manifest ID: | 014064297JJK |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1993 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 19931206 |
| Creation Date: | 9/14/1995 0:00:00 |
| Receipt Date: | 19931207 |
| Manifest ID: | 92662119 |
| Trans EPA ID: | CAT080012800 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982484933 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 512 - Other empty containers 30 gallons or more |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 10 |
| Waste Quantity: | 20000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 19931206 |
| Creation Date: | 9/14/1995 0:00:00 |
| Receipt Date: | 19931209 |
| Manifest ID: | 93367201 |
| Trans EPA ID: | CAD009466392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | D018 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 2.28 |
| Waste Quantity: | 600 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19931206 |
| Creation Date: | 9/14/1995 0:00:00 |
| Receipt Date: | 19931207 |
| Manifest ID: | 93030299 |
| Trans EPA ID: | CAD087169686 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982484933 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 512 - Other empty containers 30 gallons or more |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 5.5 |
| Waste Quantity: | 11000 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19931206 |
| Creation Date: | 9/14/1995 0:00:00 |
| Receipt Date: | 19931207 |
| Manifest ID: | 92795977 |
| Trans EPA ID: | CAD009466392 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982484933 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 512 - Other empty containers 30 gallons or more |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 10 |
| Waste Quantity: | 20000 |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **S113163920**

| | |
|---|---|
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2010 |
| Gen EPA ID: | CAL912912940 |
| Shipment Date: | 20100715 |
| Creation Date: | 1/24/2011 18:30:44 |
| Receipt Date: | 20100727 |
| Manifest ID: | 003767592FLE |
| Trans EPA ID: | TXR000050930 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| Trans 2 EPA ID: | OKD981588791 |
| Trans 2 Name: | TRIAD TRANSPORT INC |
| TSDF EPA ID: | TXD077603371 |
| Trans Name: | SAFETY-KLEEN SYSTEMS INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 741 - Liquids with halogenated organic compounds > 1000 mg/l |
| RCRA Code: | F001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.08 |
| Waste Quantity: | 160 |
| Quantity Unit: | P |
| Additional Code 1: | D040 |
| Additional Code 2: | D039 |
| Additional Code 3: | D001 |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO |
| Address: | 2401 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL912912940 |
| Inactive Date: | 01/13/2021 |
| Create Date: | 10/18/1991 |
| Last Act Date: | 01/14/2021 |
| Mailing Name: | Not reported |
| Mailing Address: | 5855 E CARSON ST |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | LAKEWOOD, CA 90713 |
| Owner Name: | FRED ALLEN ENTERPRISES INC |
| Owner Address: | 5855 E CARSON ST |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | LAKEWOOD, CA 90713 |
| Contact Name: | ADRIENNE BAUER |
| Contact Address: | 5855 E CARSON ST |
| Contact Address 2: | Not reported |
| City,State,Zip: | LAKEWOOD, CA 90713 |

**E36 NE < 1/8 0.088 mi. 465 ft.** | **G&M OIL #12**
**2401 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 5 of 9 in cluster E**

**LUST**
**HIST UST**
**Cortese**
**CERS**

**U001578242**
**N/A**

**Relative: Higher**

**Actual: 195 ft.**

LUST:

| | |
|---|---|
| Name: | ALLEN TIRE COMPANY |
| Address: | 2401 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Lead Agency: | SANTA ANA, CITY OF |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901724 |
| Global Id: | T0605901724 |
| Latitude: | 33.76875 |
| Longitude: | -117.835124 |
| Status: | Completed - Case Closed |
| Status Date: | 09/11/1996 |
| Case Worker: | CC |
| RB Case Number: | 083002412T |
| Local Agency: | SANTA ANA, CITY OF |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Waste Oil / Motor / Hydraulic / Lubricating |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901724 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | CHRISTOPHER CIRAULO |
| Organization Name: | SANTA ANA, CITY OF |
| Address: | 1439 S. BROADWAY |
| City: | SANTA ANA |
| Email: | cciraulo@santa-ana.org |
| Phone Number: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605901724 |
| Action Type: | Other |
| Date: | 12/10/1993 |
| Action: | Leak Discovery |
| | |
| Global Id: | T0605901724 |
| Action Type: | Other |
| Date: | 12/20/1993 |
| Action: | Leak Reported |
| | |
| Global Id: | T0605901724 |
| Action Type: | Other |
| Date: | 12/10/1993 |
| Action: | Leak Stopped |
| | |
| Global Id: | T0605901724 |
| Action Type: | ENFORCEMENT |
| Date: | 09/11/1996 |
| Action: | Closure/No Further Action Letter |

**G&M OIL #12 (Continued)** **U001578242**

LUST:

| | |
|---|---|
| Global Id: | T0605901724 |
| Status: | Open - Case Begin Date |
| Status Date: | 12/10/1993 |
| | |
| Global Id: | T0605901724 |
| Status: | Completed - Case Closed |
| Status Date: | 09/11/1996 |

HIST UST:

| | |
|---|---|
| Name: | G&M OIL #12 |
| Address: | 2401 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| File Number: | Not reported |
| URL: | Not reported |
| Region: | STATE |
| Facility ID: | 00000052506 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | R.T. OTJEN |
| Telephone: | 7149602471 |
| Owner Name: | GEORGE A. PEARSON |
| Owner Address: | 2120 MAIN STREET, SUITE 140 |
| Owner City,St,Zip: | HUNTINGTON BEACH, CA 92648 |
| Total Tanks: | 0005 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 002 |
| Container Num: | 2 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 003 |
| Container Num: | 3 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 004 |
| Container Num: | 4 |

**G&M OIL #12 (Continued)** **U001578242**

| | |
|---|---|
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

| | |
|---|---|
| Tank Num: | 005 |
| Container Num: | 5 |
| Year Installed: | Not reported |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

CORTESE:

| | |
|---|---|
| Name: | ALLEN TIRE COMPANY |
| Address: | 2401 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605901724 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | ALLEN TIRE COMPANY |
| Address: | 2401 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 245165 |
| CERS ID: | T0605901724 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | CHRISTOPHER CIRAULO - SANTA ANA, CITY OF |
| Entity Title: | Not reported |
| Affiliation Address: | 1439 S. BROADWAY |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |

**G&M OIL #12 (Continued)** **U001578242**

Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

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**E37 NE < 1/8 0.088 mi. 465 ft.** | **ALLEN TIRE COMPANY 1694**
**2401 N TUSTIN AVE**
**SANTA ANA, CA 92705** | **CERS HAZ WASTE** **S127123285**
**CERS** **N/A**
**HWTS**

**Site 6 of 9 in cluster E**

**Relative: Higher**

**Actual: 195 ft.**

CERS HAZ WASTE:
Name: ALLEN TIRE COMPANY 1694
Address: 2401 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 4458
CERS ID: 10484929
CERS Description: Hazardous Waste Generator

CERS:
Name: ALLEN TIRE COMPANY 1694
Address: 2401 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 4458
CERS ID: 10484929
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 4458
Site Name: ALLEN TIRE COMPANY 1694
Violation Date: 03-10-2021
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: The site map did not include the service bay on the east side of the property which contained hazardous materials. Corrective action: Provide a complete site map which contains the following information: north orientation, loading areas and internal roads if applicable, adjacent streets, storm drains and sewers, access and exit points, emergency gas/water/electric shutoffs, evacuation staging areas, hazardous material storage and handling areas, and emergency response equipment (fire extinguishers and hydrants). Upload the updated site map on CERS and resubmit within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 4458
Site Name: ALLEN TIRE COMPANY 1694
Violation Date: 11-29-2016
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 12/01/2016. Employees are reported to be

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

trained, but records are not kept. Please hold a safety meeting that covers the business emergency plan within the next 30 days and provide a copy of the training to this agency. Employee training records should be kept on site for a minimum of three years.

Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 4458
Site Name: ALLEN TIRE COMPANY 1694
Violation Date: 12-09-2019
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Returned to compliance on 06/24/2020. Observed oily liquid in the three secondary containment pallets used to store 55-gallon containers of hazardous waste. Immediately clean up the release of oily liquid from the secondary containment pallets. Manage the waste in a closed container and label container with all required labeling information. Submit photograph(s) to this agency within 30 days showing that the oily liquid has been removed from the secondary containment pallets.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 4458
Site Name: ALLEN TIRE COMPANY 1694
Violation Date: 11-29-2016
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: Returned to compliance on 11/29/2016. Hazardous was containers were open and not in use during inspection. Hazardous waste containers must be closed when not in use to prevent release to the environment. Drums were closed during inspection, violation abated
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 4458
Site Name: ALLEN TIRE COMPANY 1694
Violation Date: 12-09-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| | date. |
| Violation Notes: | Returned to compliance on 12/09/2019. The hazardous waste label on the 55-gallon container of waste coolant was illegible. A new hazardous waste label was provided for the 55-gallon container of waste coolant at the time of inspection. The violation was corrected. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 4458 |
| Site Name: | ALLEN TIRE COMPANY 1694 |
| Violation Date: | 12-09-2019 |
| Citation: | 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173 |
| Violation Description: | Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak. |
| Violation Notes: | Returned to compliance on 12/09/2019. Observed the following hazardous waste containers missing bung caps: - Used oil (2 x 55-gallon containers) - Waste coolant (1 x 55-gallon container) Bung caps were provided for the above containers at the time of inspection. The violation was corrected. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 4458 |
| Site Name: | ALLEN TIRE COMPANY 1694 |
| Violation Date: | 11-29-2016 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 11/29/2016. Labels were missing accumulation start dates and hazardous properties. Labels must include G Hazardous WasteG , name and address of facility, accumulation start date, contents, state of material and hazardous properties. Labels were filled in during inspection, violation abated. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

Evaluation:

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-23-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received copy of training records from facility. Violation I239 issued on 11/29/16 has been corrected. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-31-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and denied CERS submission: Facility Info: Your EPA ID is currently showing as inactive, please re-active through the Department of Toxic Substances Control (DTSC) website: http://www.dtsc.ca.gov/IDManifest/ Haz Mat Inventory & Site Map: Your submission has been reviewed and not accepted, please correct: 1.Ethylene Glycol: add state waste code (135) 2.Motor Oil (new):type is mixture, new material does not need annual waste amount and state waste code, various lubricating oils-use CAS # 64742-65-0 or equivalent 3.Motor Oil (used):add storage pressure (ambient) and storage temperature (ambient), various lubricating oils-use CAS # 64742-65-0 or equivalent 4.Site Map: add emergency response equipment (spill kit, absorbent, etc.) If you have questions about your submission you can contact me at eminson@ochca.com or 714-290-7459. Emergency Plan: Please upload Emergency Plan for correct facility. Current emergency plan is for Allen Tire Company #6 in [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: A routine inspection was conducted. Mike Williams, manager, granted me permission to inspect and accompanied me on the inspection. The service bays, hazardous materials storage areas, outside perimeter of building, and trash dumpster were inspected. No hazardous waste observed in dumpster. The drums of hazardous waste in the shop were stored closed and labeled with required hazardous waste information. Hazardous waste disposal records from the past three years were available for review. A hazardous waste emergency response plan was posted on the wall of the employee break room, and emergency equipment (fire extinguishers, absorbent and shop towels for responding to possible spills) was on site.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-06-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ALLEN TIRE COMPANY, 2401 N TUSTIN AVE, SANTA ANA CA 92705 ALLEN TIRE COMPANY 2401 N TUSTIN AVE SANTA ANA CA 92705 On site to conduct a routine hazardous waste inspection and observed the following hazardous materials that meet required disclosure quantities: -two 55-gallons of waste oil -one 55-gallon drum of waste oil filters -one 55-gallon drum of waste antifreeze -one 55-gallon drum of new antifreeze Facility is required and has been notified to electronically submit the following documents within 30 days of this inspection: - Business Activities form - Owner/Operator Identification

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

form - Hazardous Material Chemical Inventory forms - Facility Site Map - Business Emergency Plan Documents must be electronically submitted by going to www.esubmit.ocgov.com and requesting a username and password. User guides and tutorials are located on the home page to help you get started. If you are having trouble, please call (714) 433-6000 and request to to [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-15-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS Review: Your submission has been DECLINED. Please submit your Hazardous Materials Inventory, Site Map, and Emergency Response plan for the 2018 annual submittal. If you have any questions, please contact me at 714-714-2408 or via email at almejia@ochca.com.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-10-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS 2016 - Accepted Minor corrections / changes requested
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-24-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violation cited on a previous inspection report. The business provided photographs showing that the secondary containment pallets (under the hazardous waste containers) have been cleaned and are free of oily liquid. Violation I014 has been corrected. No violations remain under the Hazardous Waste Generator program. A copy of this report will be emailed to: <allentire03@allentire.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-22-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File Review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-22-2016

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: File Review
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-09-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - New lubricating oil (2 x 110-gallon containers, 3 x 55-gallon containers) - Used oil (2 x 55-gallon containers) - Waste coolant (1 x 55-gallon container) The facility is responsible for identifying all hazardous materials, and to include hazardous wastes, which are above disclosure thresholds (55 gallons of a liquid, 500 pounds of a solid, 200 cubic feet of a compressed gas). If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Environmental Reporting System (CERS) located at http://cers.calepa.ca.gov/. Note: The business is [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Facility has complied with 2016 HMBEP reporting requirements. HMBEP submittal was reviewed and declined on CERS. The following corrections are needed: CHEMICAL INVENTORY An inspection of your facility conducted on 2/6/14 indicated that you have waste antifreeze, new antifreeze and waste oil on site in disclosable quantities. Either add these to your disclosure or indicate that you no longer store these materials above threshold amounts. Motor Oil - you have completed the Annual Waste Amount and State Waste code G if this is a waste please change Hazardous Material Type to Waste, if not remove amounts reported in these fields. If you are attempting to report both a waste and a new material, they must be reported under two chemical listings// complete the MIXTURE COMPONENTS as follows: HAZARDOUS COMPONENT NAME=Waste oils, %WT= 100, CAS# = 64742-65-0 SITE MAP Please add entrances and exits to your map. Also, you have indicated that there is motor oil stored on the [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-07-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| Eval Notes: | update waste stream page |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-21-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The following documents and have been received in CERS and reviewed: -Business Activities: Accepted -Business Owner/Operator Identification: Accepted -Hazardous Materials Inventory & Site Map: Not Accepted Your submission has been reviewed and not accepted, please correct: 1.Ethylene Glycol: add state waste code (135) 2.Motor Oil (new):type is mixture, new material does not need annual waste amount and state waste code, various lubricating oils-use CAS # 64742-65-0 or equivalent 3.Motor Oil (used):add storage pressure (ambient) and storage temperature (ambient), various lubricating oils-use CAS # 64742-65-0 or equivalent 4. Site Map: add emergency response equipment (spill kit, absorbent, etc.) If you have questions about your submission you can contact me at eminson@ochca.com or 714-290-7459. -Emergency Response: Accepted |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-22-2021 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed the submittal dated 4/6/2021 for the following sections: Facility Information, Hazardous Materials Inventory, and Emergency Response and Training Plans. The Hazardous Materials Inventory section was not accepted. Violation I632 is still outstanding, the site map was not updated to include all structures observed during the inspection. A copy of this report was sent to southboyz@yahoo.com. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-29-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: On site for routine hazardous materials and Hazardous Materials Business Emergency Plan (HMBEP) inspection. Consent to conduct inspection activities was provided by Mike Williams, Manager. Observed the facility and inspected the hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: -Used Oil -New Oil -New Antifreeze Business emergency plan has been submitted through the California Environmental Reporting System (CERS) database. Annual employee safety training records were not available, see violation I239 above. The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

(electronically) within 30 days of the change.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-31-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: CERS review: only one(1) HM disclosed = oil & below threshold. Change status to 04 until field inspection & review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-11-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed the submittal dated 4/30/2021 for the following sections: Facility Information and Hazardous Materials Inventory. Both sections were accepted. Violation I632 was observed to be corrected, no further corrective action required. A copy of this report was sent to southboyz@yahoo.com.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Processed A21.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-10-2021
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Walked the facility with John South, associate. Verified new ownership as MNRO HOLDINGS LLC. The facility is a Small Quantity Hazardous Waste Generator with waste streams from automotive maintenance. Inspected the hazardous waste storage area, the repair bays, the perimeter and the municipal trash. No hazardous materials were observed in the municipal trash. Hazardous waste containers were in good condition, stored closed and were properly labeled. Reviewed hazardous waste manifests. Emergency response phone number were available in the office. A copy of this report was sent to southboyz@yahoo.com.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-10-2021
Violations Found: Yes

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for routine hazardous materials and business emergency plan inspection. The inspection was conducted with John South, Associate. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Motor Oil- 330 gallons - Waste Oil- 165 gallons REQUIREMENT FOR ELECTRONIC SUBMITTAL OF HMBEP DOCUMENTS: - Business Activities - Owner/Operator Information - Hazardous Materials Inventory - Site Map - Emergency Response Plan - Employee Training Plan The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Electronic Reporting System [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-14-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | 2015 CERS review - ER not accepted - Costa Mesa store 12 Plan submitted. Need field review of New oil vs. Used oil volumes |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-07-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed CERS submission Facility Information: Accepted Hazardous Materials Inventory: Not Accepted Your submission has been reviewed and not accepted, please correct: 1.Ethylene Glycol: add state waste code (135) 2.Motor Oil (new):type is mixture, new material does not need annual waste amount and state waste code, various lubricating oils-use CAS # 64742-65-0 or equivalent 3.Motor Oil (used):add storage pressure (ambient) and storage temperature (ambient), various lubricating oils-use CAS # 64742-65-0 or equivalent 4. Site Map: add emergency response equipment (spill kit, absorbent, etc.) If you have questions about your submission you can contact me at eminson@ochca.com or 714-290-7459. Emergency Response/Training Plans: Not Accepted Please upload Emergency Plan for correct facility. Current emergency plan is for Allen Tire Company #6 in Fullerton, not Allen Tire Company #3 in Santa Ana. Please include OC CUPA phone number 714-433-6000. If you have questions [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-10-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| Eval Notes: | CERS review - Accept & update EC |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 11-29-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: On site for routine hazardous waste inspection. Consent to conduct inspection activities was provided by Mike Williams, Manager. Business ownership information was verified. The current number of employees is 7. Walked throughout the facility and observed hazardous waste storage area. Containers were open while not in use, see violation I617 above. Labels were missing required information, see violation I400 above. Manifest were available and reviewed. Employees are reported to be trained. Emergency plan is posted in office. A perimeter walk was conducted and the shared municipal dumpster was observed. No signs of illegal disposal were observed during inspection. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-09-2019 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site to conduct a routine hazardous waste inspection. This facility is owned by Fred Allen Enterprises Inc and currently has 9 employees. Walked throughout the facility and observed the hazardous waste storage area(s). This facility currently generates the following hazardous waste: - Used oil - Waste coolant - Used oil filters, metal - Used oil filters, non-metal - Waste brake fluid Hazardous waste manifests were available for review. The emergency response plan was available on site. Employees are familiar with hazardous waste handling and emergency procedures. A copy of this inspection report will be sent to: Facility email address <allentire03@allentire.com> |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 4458 |
| Facility Name: | ALLEN TIRE COMPANY 1694 |
| Env Int Type Code: | HWG |
| Program ID: | 10484929 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station. |
| Latitude: | 33.768770 |
| Longitude: | -117.835140 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 14615 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Jack A Fisher |
| Entity Title: | Agent for MNRO Holdings, LLC |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | MNRO Holdings, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | United States |
| Affiliation Zip: | 14615 |
| Affiliation Phone: | (585) 647-6400 |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Jack A Fisher |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | MNRO Holdings, LLC dba Tire Choice |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Greg Peterson |
| Entity Title: | Not reported |
| Affiliation Address: | 200 Holleder Parkway |
| Affiliation City: | Rochester |
| Affiliation State: | NY |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 14615 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | ALLEN TIRE COMPANY |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (585) 647-6400 |

| | |
|---|---|
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Lennox Investments, LP |
| Entity Title: | Not reported |
| Affiliation Address: | 1880 Crenshaw Circle |
| Affiliation City: | Corona |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92883 |
| Affiliation Phone: | (714) 366-6222 |

HWTS:

| | |
|---|---|
| Name: | ALLEN TIRE CO 1694 |
| Address: | 2401 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927050000 |
| EPA ID: | CAL000457852 |
| Inactive Date: | Not reported |
| Create Date: | 10/30/2020 |
| Last Act Date: | 10/30/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 200 HOLLEDER PKWY |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | ROCHESTER, NY 14615 |
| Owner Name: | MNRO HOLDINGS LLC DBA TIRE CHOICE |
| Owner Address: | 200 HOLLEDER PKWY |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | ROCHESTER, NY 14615 |
| Contact Name: | THOMAS GIANNONE |
| Contact Address: | 200 HOLLEDER PKWY |
| Contact Address 2: | Not reported |
| City,State,Zip: | ROCHESTER, NY 14615 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000457852 |
| Create Date: | 2020-10-30 08:27:20.643 |
| NAICS Code: | 811111 |

**ALLEN TIRE COMPANY 1694 (Continued)** **S127123285**

| | |
|---|---|
| NAICS Description: | General Automotive Repair |
| Issued EPA ID Date: | 2020-10-30 08:27:20.64300 |
| Inactive Date: | Not reported |
| Facility Name: | ALLEN TIRE CO 1694 |
| Facility Address: | 2401 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927050000 |

---

**E38**
**NE**
**< 1/8**
**0.088 mi.**
**465 ft.**

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO** **RCRA NonGen / NLR** **1024875537**
**2401 N TUSTIN AVE** **CAL912912940**
**SANTA ANA, CA 92705**

**Site 7 of 9 in cluster E**

**Relative:**
**Higher**

**Actual:**
**195 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20210113 |
| Handler Name: | FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO |
| Handler Address: | 2401 N TUSTIN AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL912912940 |
| Contact Name: | ADRIENNE BAUER |
| Contact Address: | 5855 E CARSON ST |
| Contact City,State,Zip: | LAKEWOOD, CA 90713 |
| Contact Telephone: | 562-497-0370 |
| Contact Fax: | 562-429-1927 |
| Contact Email: | ADRIENNE@ALLENTIRE.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 5855 E CARSON ST |
| Mailing City,State,Zip: | LAKEWOOD, CA 90713 |
| Owner Name: | Not reported |
| Owner Type: | Not reported |
| Operator Name: | FRED ALLEN ENTERPRISES INC |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **1024875537**

| | |
|---|---|
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210114 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | FRED ALLEN ENTERPRISES INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5855 E CARSON ST |
| Owner/Operator City,State,Zip: | LAKEWOOD, CA 90713-3056 |
| Owner/Operator Telephone: | 562-497-0370 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **1024875537**

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | FRED ALLEN ENTERPRISES INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5855 E CARSON ST |
| Owner/Operator City,State,Zip: | LAKEWOOD, CA 90713 |
| Owner/Operator Telephone: | 562-497-0370 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | AMANDA BLOOM |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5855 EAST CARSON STREET |
| Owner/Operator City,State,Zip: | LAKEWOOD, CA 90713 |
| Owner/Operator Telephone: | 562-497-0370 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210113 |
| Handler Name: | FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

| | |
|---|---|
| Receive Date: | 19911018 |
| Handler Name: | ALLEN TIRE CO |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 326211 |
| NAICS Description: | TIRE MANUFACTURING (EXCEPT RETREADING) |

**FRED ALLEN ENTERPRISES INC DBA ALLEN TIRE CO (Continued)** **1024875537**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**C39 East < 1/8 0.090 mi. 476 ft.** **LADD LIQUORS 9**
**2151 E SANTA CLARA AVE**
**SANTA ANA, CA 92701**
**Site 7 of 8 in cluster C**

**LUST** **U001578101**
**HIST UST** **N/A**
**Cortese**
**CERS**

**Relative: Lower**
**Actual: 191 ft.**

LUST:

| | |
|---|---|
| Name: | E-Z SERVE |
| Address: | 2151 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Lead Agency: | SANTA ANA, CITY OF |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900943 |
| Global Id: | T0605900943 |
| Latitude: | 33.767461 |
| Longitude: | -117.834921 |
| Status: | Completed - Case Closed |
| Status Date: | 09/11/1992 |
| Case Worker: | CC |
| RB Case Number: | 083001207T |
| Local Agency: | SANTA ANA, CITY OF |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605900943 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | CHRISTOPHER CIRAULO |
| Organization Name: | SANTA ANA, CITY OF |
| Address: | 1439 S. BROADWAY |
| City: | SANTA ANA |
| Email: | cciraulo@santa-ana.org |
| Phone Number: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605900943 |
| Action Type: | ENFORCEMENT |
| Date: | 09/11/1989 |
| Action: | Closure/No Further Action Letter |
| Global Id: | T0605900943 |
| Action Type: | Other |
| Date: | 03/28/1989 |
| Action: | Leak Discovery |
| Global Id: | T0605900943 |
| Action Type: | Other |

**LADD LIQUORS 9 (Continued)** **U001578101**

Date: 03/28/1989
Action: Leak Stopped

Global Id: T0605900943
Action Type: Other
Date: 04/19/1989
Action: Leak Reported

LUST:
Global Id: T0605900943
Status: Open - Case Begin Date
Status Date: 03/28/1989

Global Id: T0605900943
Status: Open - Site Assessment
Status Date: 07/05/1989

Global Id: T0605900943
Status: Completed - Case Closed
Status Date: 09/11/1992

HIST UST:
Name: LADD LIQUORS 9
Address: 2151 E SANTA CLARA AVE
City,State,Zip: SANTA ANA, CA 92701
File Number: 0002E87D
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E87D.pdf
Region: STATE
Facility ID: 00000011213
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 9156726481
Owner Name: E-Z SERVE, INC.
Owner Address: 901 SOUTH 1ST
Owner City,St,Zip: ABILENE, TX 79602
Total Tanks: 0002

Tank Num: 001
Container Num: 37
Year Installed: 77
Tank Capacity: 00009942
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 38
Year Installed: 77
Tank Capacity: 00010310
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

**LADD LIQUORS 9 (Continued)** **U001578101**

Click here for Geo Tracker PDF:

CORTESE:

| | |
|---|---|
| Name: | E-Z SERVE |
| Address: | 2151 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605900943 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | E-Z SERVE |
| Address: | 2151 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Site ID: | 224633 |
| CERS ID: | T0605900943 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | CHRISTOPHER CIRAULO - SANTA ANA, CITY OF |
| Entity Title: | Not reported |
| Affiliation Address: | 1439 S. BROADWAY |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**C40 East < 1/8 0.090 mi. 476 ft.** | **LADD LIQUORS #9**
**2151 E SANTA CLARA AVE**
**SANTA ANA, CA 92701**

**Site 8 of 8 in cluster C**

**SWEEPS UST** | **S101619739**
**CA FID UST** | **N/A**

**Relative: Lower**

**Actual: 191 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | LADD LIQUORS #9 |
| Address: | 2151 E SANTA CLARA AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 11213 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Referral Date: | 07-01-85 |
| Action Date: | Not reported |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 37 |
| SWRCB Tank Id: | 30-020-011213-000001 |
| Tank Status: | A |
| Capacity: | 9942 |
| Active Date: | 07-01-85 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 2 |

| | |
|---|---|
| Name: | LADD LIQUORS #9 |
| Address: | 2151 E SANTA CLARA AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 11213 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Referral Date: | 07-01-85 |
| Action Date: | Not reported |
| Created Date: | 07-31-88 |
| Owner Tank Id: | 38 |
| SWRCB Tank Id: | 30-020-011213-000002 |
| Tank Status: | A |
| Capacity: | 10310 |
| Active Date: | 07-01-85 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

CA FID UST:

| | |
|---|---|
| Facility ID: | 30006945 |
| Regulated By: | UTNKA |
| Regulated ID: | 00011213 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 9156726481 |
| Mail To: | Not reported |
| Mailing Address: | P O BOX |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |

**LADD LIQUORS #9 (Continued)** **S101619739**

| | |
|---|---|
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

---

**E41**
**NNE**
**< 1/8**
**0.095 mi.**
**503 ft.**

**ALLEN TIRE CO INC** **EDR Hist Auto** **1022197318**
**2401 TUSTIN AVE** **N/A**
**SANTA ANA, CA 92705**

**Site 8 of 9 in cluster E**

**Relative:**
**Higher**

**Actual:**
**196 ft.**

EDR Hist Auto

| Year: | Name: | Type: |
|---|---|---|
| 1990 | ALLEN TIRE CO INC | Auto And Home Supply Stores |

---

**E42**
**NNE**
**< 1/8**
**0.095 mi.**
**503 ft.**

**ALLEN TIRE COMPANY** **LUST** **S100929234**
**2401 TUSTIN AVE** **N/A**
**SANTA ANA, CA 92705**

**Site 9 of 9 in cluster E**

**Relative:**
**Higher**

**Actual:**
**196 ft.**

LUST REG 8:

| | |
|---|---|
| Name: | ALLEN TIRE COMPANY |
| Address: | 2401 TUSTIN AVE |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Remedial action (cleanup) Underway |
| Case Number: | 083002412T |
| Local Case Num: | Not reported |
| Case Type: | Soil only |
| Substance: | Waste Oil |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | CLOS |
| Funding: | Not reported |
| How Discovered: | Tank Closure |
| How Stopped: | Not reported |
| Leak Cause: | UNK |
| Leak Source: | UNK |
| Global ID: | T0605901724 |
| How Stopped Date: | 12/10/1993 |
| Enter Date: | 4/12/1994 |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | 12/10/1993 |
| Enforcement Date: | Not reported |
| Close Date: | 9/11/1996 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |

**ALLEN TIRE COMPANY (Continued)** **S100929234**

| | |
|---|---|
| Date Remedial Action Underway: | 1/1/1965 |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | 4/12/1994 |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.76982873 |
| Longitude: | -117.8354658 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 0 |
| MTBE Tested: | Not Required to be Tested. |
| MTBE Class: | * |
| Staff: | NOM |
| Staff Initials: | JB |
| Lead Agency: | Local Agency |
| Local Agency: | Santa Ana, Orange County |
| Hydr Basin #: | COASTAL PLAIN OF ORA |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |

Summary: Not reported

---

**D43** **FRAZEE PAINT** **RCRA-SQG** **1000443109**
**SE** **2201 N TUSTIN AVENUE** **SWEEPS UST** **CAD087377693**
**< 1/8** **SANTA ANA, CA 92701** **HIST UST**
**0.115 mi.** **CA FID UST**
**608 ft.** **Site 12 of 16 in cluster D** **CHMIRS**

**Relative:**
**Lower**

**Actual:**
**189 ft.**

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 20010611 |
| Handler Name: | FRAZEE PAINT |
| Handler Address: | 2201 N TUSTIN AVENUE |
| Handler City,State,Zip: | SANTA ANA, CA 92701 |
| EPA ID: | CAD087377693 |
| Contact Name: | STEVE EATON |
| Contact Address: | 6625 MIRAMAR RD |
| Contact City,State,Zip: | SAN DIEGO, CA 92121 |
| Contact Telephone: | 858-626-3383 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2201 N TUSTIN AVENUE |

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| Mailing City,State,Zip: | SANTA ANA, CA 92701 |
| Owner Name: | PROFESSIONAL PAINT INC |
| Owner Type: | Private |
| Operator Name: | Not reported |
| Operator Type: | Not reported |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20021007 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |

**FRAZEE PAINT (Continued)** **1000443109**

Recycler Activity Without Storage: Not reported
Manifest Broker: Not reported
Sub-Part P Indicator: No

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: PROFESSIONAL PAINT INC
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 3900 JOLIET ST
Owner/Operator City,State,Zip: DENVER, CO 80239-0119
Owner/Operator Telephone: 303-371-5600
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19960901 |
| Handler Name: FRAZEE PAINT | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

| | |
|---|---|
| Receive Date: | 20010611 |
| Handler Name: FRAZEE PAINT | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 44412 |
| NAICS Description: | PAINT AND WALLPAPER STORES |

Facility Has Received Notices of Violation:

| | |
|---|---|
| Found Violation: | No |
| Agency Which Determined Violation: | Not reported |
| Violation Short Description: | Not reported |
| Date Violation was Determined: | Not reported |
| Actual Return to Compliance Date: | Not reported |
| Return to Compliance Qualifier: | Not reported |
| Violation Responsible Agency: | Not reported |
| Scheduled Compliance Date: | Not reported |
| Enforcement Identifier: | Not reported |
| Date of Enforcement Action: | Not reported |
| Enforcement Responsible Agency: | Not reported |
| Enforcement Docket Number: | Not reported |
| Enforcement Attorney: | Not reported |
| Corrective Action Component: | Not reported |

**FRAZEE PAINT (Continued)** **1000443109**

Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19940509
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

SWEEPS UST:
Name: FRAZEE PAINT
Address: 2201 N TUSTIN AVE
City: SANTA ANA
Status: Not reported
Comp Number: 222
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000222-000001
Tank Status: Not reported
Capacity: 9940
Active Date: Not reported
Tank Use: UNKNOWN

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| STG: | PRODUCT |
| Content: | Not reported |
| Number Of Tanks: | 3 |

| | |
|---|---|
| Name: | FRAZEE PAINT |
| Address: | 2201 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 222 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000222-000002 |
| Tank Status: | Not reported |
| Capacity: | 5000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | FRAZEE PAINT |
| Address: | 2201 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 222 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000222-000003 |
| Tank Status: | Not reported |
| Capacity: | 1000 |
| Active Date: | Not reported |
| Tank Use: | UNKNOWN |
| STG: | WASTE |
| Content: | Not reported |
| Number Of Tanks: | Not reported |

HIST UST:

| | |
|---|---|
| Name: | FRAZEE PAINT |
| Address: | 2201 NORTH TUSTIN ST |
| City,State,Zip: | SANTA ANA, CA 92701 |
| File Number: | 0002E925 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E925.pdf |
| Region: | STATE |
| Facility ID: | 00000007426 |
| Facility Type: | Other |
| Other Type: | PAINT STORE |
| Contact Name: | BILL HOFFARTH |
| Telephone: | 7149731451 |
| Owner Name: | FRAZEE PAINTS & WALLCOVERING |

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| Owner Address: | 6625 MIRAMAR RD |
| Owner City,St,Zip: | SAN DIEGO, CA 92121 |
| Total Tanks: | 0003 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1977 |
| Tank Capacity: | 00009940 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 002 |
| Container Num: | 2 |
| Year Installed: | 1977 |
| Tank Capacity: | 00005000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |
| | |
| Tank Num: | 003 |
| Container Num: | 3 |
| Year Installed: | 1977 |
| Tank Capacity: | 00001000 |
| Tank Used for: | WASTE |
| Type of Fuel: | Not reported |
| Container Construction Thickness: | Not reported |
| Leak Detection: | None |

Click here for Geo Tracker PDF:

CA FID UST:

| | |
|---|---|
| Facility ID: | 30008816 |
| Regulated By: | UTNKA |
| Regulated ID: | 00007426 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7149731451 |
| Mail To: | Not reported |
| Mailing Address: | 2201 N TUSTIN ST |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

CHMIRS:

| | |
|---|---|
| Name: | Not reported |
| Address: | 2201 N TUSTIN RD |
| City,State,Zip: | SANTA ANA, CA |

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| OES Incident Number: | 15-3265 |
| OES notification: | 06/10/2015 |
| OES Date: | Not reported |
| OES Time: | Not reported |
| **Date Completed:** | **Not reported** |
| Property Use: | Not reported |
| Agency Id Number: | Not reported |
| Agency Incident Number: | Not reported |
| Time Notified: | Not reported |
| Time Completed: | Not reported |
| Surrounding Area: | Not reported |
| Estimated Temperature: | Not reported |
| Property Management: | Not reported |
| More Than Two Substances Involved?: | Not reported |
| Resp Agncy Personel # Of Decontaminated: | Not reported |
| Responding Agency Personel # Of Injuries: | Not reported |
| Responding Agency Personel # Of Fatalities: | Not reported |
| Others Number Of Decontaminated: | Not reported |
| Others Number Of Injuries: | Not reported |
| Others Number Of Fatalities: | Not reported |
| Vehicle Make/year: | Not reported |
| Vehicle License Number: | Not reported |
| Vehicle State: | Not reported |
| Vehicle Id Number: | Not reported |
| CA DOT PUC/ICC Number: | Not reported |
| Company Name: | Not reported |
| Reporting Officer Name/ID: | Not reported |
| Report Date: | Not reported |
| Facility Telephone: | Not reported |
| Waterway Involved: | No |
| Waterway: | Not reported |
| Spill Site: | Road |
| Cleanup By: | Contractor |
| Containment: | Not reported |
| What Happened: | Not reported |
| Type: | Not reported |
| Measure: | Not reported |
| Other: | Not reported |
| Type: | CHEMICAL |
| Measure: | Gal(s) |
| Other: | Not reported |
| Date/Time: | 1424 |
| Year: | 2015 |
| Agency: | ERTS |
| Incident Date: | 06/10/2015 |
| Admin Agency: | Santa Ana Fire Department |
| Amount: | Not reported |
| Contained: | Yes |
| Site Type: | Not reported |
| E Date: | Not reported |
| Substance: | Non Hazardous Paint |
| Quantity Released: | 15 |
| Unknown: | Not reported |
| Substance #2: | Not reported |
| Substance #3: | Not reported |
| Evacuations: | Not reported |
| Number of Injuries: | Not reported |

**FRAZEE PAINT (Continued)** **1000443109**

| | |
|---|---|
| Number of Fatalities: | Not reported |
| #1 Pipeline: | No |
| #2 Pipeline: | No |
| #3 Pipeline: | No |
| #1 Vessel >= 300 Tons: | No |
| #2 Vessel >= 300 Tons: | No |
| #3 Vessel >= 300 Tons: | No |
| Evacs: | No |
| Injuries: | No |
| Fatals: | No |
| Comments: | Not reported |
| Description: | RP stated, two 10 gallon drums tip over in the back of the trailer, resulting in the release of 15 gallons of Non Hazardous Paint onto the trailer floor and asphalt. The release is contained and cleanup is underway. No waterways have been impacted. |

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**D44** **SHERIN WILLIAMS #1534** **RCRA NonGen / NLR** **1024844152**
**SE** **2201 N TUSTIN AVE** **CAL000396228**
**< 1/8** **SANTA ANA, CA 92705**
**0.115 mi.**
**608 ft.** **Site 13 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**189 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20140424 |
| Handler Name: | SHERIN WILLIAMS #1534 | |
| Handler Address: | | 2201 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAL000396228 |
| Contact Name: | | CAROL F. DOE |
| Contact Address: | | 101 PROSPECT AVE NW |
| Contact City,State,Zip: | | CLEVELAND, OH 44115 |
| Contact Telephone: | | 216-566-1710 |
| Contact Fax: | | Not reported |
| Contact Email: | | CAROL.F.DOE@SHERWIN.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 101 W PROSPECT AVE |
| Mailing City,State,Zip: | | CLEVELAND, OH 44115-1027 |
| Owner Name: | | THE SHERWIN WILLIAMS COMPANY |
| Owner Type: | | Other |
| Operator Name: | | CAROL F. DOE |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |

**SHERIN WILLIAMS #1534 (Continued)** **1024844152**

| | |
|---|---|
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180906 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | CAROL F. DOE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |

**SHERIN WILLIAMS #1534 (Continued)** **1024844152**

Owner/Operator Address: 101 PROSPECT AVE NW
Owner/Operator City,State,Zip: CLEVELAND, OH 44115
Owner/Operator Telephone: 216-566-1710
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: THE SHERWIN WILLIAMS COMPANY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 101 W PROSPECT AVE
Owner/Operator City,State,Zip: CLEVELAND, OH 44115-1027
Owner/Operator Telephone: 216-566-1710
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20140424
Handler Name: SHERIN WILLIAMS #1534
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44419
NAICS Description: OTHER BUILDING MATERIAL DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**D45** **SHERWIN-WILLIAMS #1533** **CERS HAZ WASTE** **S118236074**
**SE** **2201 N TUSTIN AVE** **HAZNET** **N/A**
**< 1/8** **SANTA ANA, CA 92705**
**0.115 mi.**
**608 ft.** **Site 14 of 16 in cluster D**

**Relative:** **Lower**
**Actual:** **189 ft.**

CERS HAZ WASTE:
Name: SHERWIN-WILLIAMS #1533
Address: 2201 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 31555
CERS ID: 10484401

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

CERS Description: Hazardous Waste Generator

Violations:

Site ID: 31555
Site Name: SHERWIN-WILLIAMS #1533
Violation Date: 09-24-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 09/24/2019. The following hazardous waste containers were not labeled: - Waste paint (1 x 55-gallon drum) - Waste paint solids (1 x 55-gallon drum) - Empty toner bottles (1 x cloth tote) Hazardous waste labels were completed and attached to all hazardous waste containers. The violation was corrected at the time of inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Other/Unknown
Eval Date: 09-26-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed Facility information in CERS, accepted.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 2016 submittal CERS review: Facility reporting as HW generator only
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-19-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: 2016 submittal CERS review: Facility states it is exempt from HazMat program - All HM is retail exempt or below thresholds. RUR to Inactivate
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-24-2019
Violations Found: Yes
Eval Type: Routine done by local agency

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Eval Notes: | On site to conduct a routine hazardous waste inspection. This facility is verified to be owned by The Sherwin-Williams Co and currently has 7 employees. Walked throughout the facility and observed the hazardous waste storage area(s). This facility currently generates the following hazardous waste: - Waste paint (1 x 55-gallon drum) - Waste paint solids (1 x 55-gallon drum) - Empty toner bottles (1 x cloth tote) Hazardous waste storage areas are inspected at least weekly. Hazardous waste manifests were available for review. An emergency response information card was provided and completed at the time of inspection. No hazardous waste or universal waste was observed in the dumpster/enclosure area at the time of the inspection. Hazardous waste containers were closed. Employees are familiar with hazardous waste handling and emergency procedures. A copy of this inspection report will be sent to: <sw1533@sherwin.com> |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 10-10-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | CERS review - Change of DBA from Frazee to Sherwin-Williams |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 05-14-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | CERS review: BA/OW pg - Reporting as HW Gen only |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-31-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | CERS review & EC records created. Facility disclosed HW & Paint Care exempt materials |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-14-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | 2015 CERS review - accepted pending field inspection - only HW disclosed |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Eval Date: | 10-17-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Corrected the BEP. Accepted. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 31555 |
| Facility Name: | SHERWIN-WILLIAMS #1533 |
| Env Int Type Code: | HWG |
| Program ID: | 10484401 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station. |
| Latitude: | 33.765950 |
| Longitude: | -117.835280 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2201 N Tustin Ave |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Yenny Khuu |
| Entity Title: | EHS Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Frazee Tustin Properties LTD - Teresa Martin |
| Entity Title: | Not reported |
| Affiliation Address: | 1005 Rosecrans St #202 |
| Affiliation City: | San Diego |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92106 |
| Affiliation Phone: | (619) 225-1740 |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Legal Owner
Entity Name: THE SHERWIN-WILLIAMS CO
Entity Title: Not reported
Affiliation Address: 101 W Prospect Ave. 1000 Midland Building
Affiliation City: Cleveland
Affiliation State: OH
Affiliation Country: United States
Affiliation Zip: 44115
Affiliation Phone: (216) 566-1710

Affiliation Type Desc: Parent Corporation
Entity Name: Sherwin-Williams Company
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Yenny Khuu
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: Yenny Khuu
Entity Title: Not reported
Affiliation Address: 2100 W. Orangewood Ave. Ste100
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92868
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: THE SHERWIN-WILLIAMS CO
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (216) 566-1710

HAZNET:
Name: SHERIN WILLIAMS #1534
Address: 2201 N TUSTIN AVE

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 928680000 |
| Contact: | YENNY KHUU |
| Telephone: | 7144747617 |
| Mailing Name: | Not reported |
| Mailing Address: | 2100 W. ORANGEWOOD AVE. STE100 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 214 - Unspecified solvent mixture |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.05150 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 291 - Latex waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.61200 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | NVD980895338 |
| CA Waste Code: | 214 - Unspecified solvent mixture |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.11450 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 291 - Latex waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.55800 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 214 - Unspecified solvent mixture |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.07700 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000396228 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 291 - Latex waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.585 |
| | |
| Year: | 2016 |
| Gepaid: | CAL000396228 |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 291 - Latex waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.44 |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000396228 |
| Shipment Date: | 20171102 |
| Creation Date: | 5/30/2018 18:32:07 |
| Receipt Date: | 20171107 |
| Manifest ID: | 001686791PSC |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000217000 |
| Trans 2 Name: | LA CHIQUITA TRUCKING |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1 |
| Waste Quantity: | 200 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20171102 |
| Creation Date: | 5/30/2018 18:32:07 |
| Receipt Date: | 20171107 |
| Manifest ID: | 001686791PSC |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000217000 |
| Trans 2 Name: | LA CHIQUITA TRUCKING |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.109 |
| Waste Quantity: | 218 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170915 |
| Creation Date: | 5/30/2018 18:33:51 |
| Receipt Date: | 20170925 |
| Manifest ID: | 001652816PSC |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | CAR000217000 |
| Trans 2 Name: | LA CHIQUITA TRUCKING |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0615 |
| Waste Quantity: | 123 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170804 |
| Creation Date: | 7/24/2018 18:30:44 |
| Receipt Date: | 20170815 |
| Manifest ID: | 001618362PSC |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0495 |
| Waste Quantity: | 99 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170804 |
| Creation Date: | 7/24/2018 18:30:44 |
| Receipt Date: | 20170815 |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Manifest ID: | 001618362PSC |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC |
| Trans 2 EPA ID: | NED986382133 |
| Trans 2 Name: | SMITH SYSTEMS TRANSPORTATION |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0625 |
| Waste Quantity: | 125 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170517 |
| Creation Date: | 5/30/2018 18:32:32 |
| Receipt Date: | 20170522 |
| Manifest ID: | 001557429PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAR000217000 |
| Trans 2 Name: | LA CHIQUITA TRUCKING |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0415 |
| Waste Quantity: | 83 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170517 |
| Creation Date: | 5/30/2018 18:32:32 |
| Receipt Date: | 20170522 |
| Manifest ID: | 001557429PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAR000217000 |
| Trans 2 Name: | LA CHIQUITA TRUCKING |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.056 |
| Waste Quantity: | 112 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170223 |
| Creation Date: | 5/19/2017 13:44:36 |
| Receipt Date: | 20170301 |
| Manifest ID: | 001485825PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM, LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA, LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM, LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170223 |
| Creation Date: | 5/19/2017 13:44:36 |
| Receipt Date: | 20170301 |
| Manifest ID: | 001485825PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM, LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA, LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM, LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.055 |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Waste Quantity: | 110 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000396228 |
| | |
| Shipment Date: | 20151228 |
| Creation Date: | 5/24/2016 16:38:02 |
| Receipt Date: | 20160104 |
| Manifest ID: | 001188816PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.064 |
| Waste Quantity: | 128 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151005 |
| Creation Date: | 1/11/2016 22:15:53 |
| Receipt Date: | 20151008 |
| Manifest ID: | 001118190PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0475 |
| Waste Quantity: | 95 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151005 |
| Creation Date: | 1/11/2016 22:15:53 |
| Receipt Date: | 20151008 |
| Manifest ID: | 001118190PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0575 |
| Waste Quantity: | 115 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150629 |
| Creation Date: | 9/22/2015 22:15:49 |
| Receipt Date: | 20150706 |
| Manifest ID: | 001045715PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.2915 |
| Waste Quantity: | 583 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150629 |
| Creation Date: | 9/22/2015 22:15:49 |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Receipt Date: | 20150706 |
| Manifest ID: | 001045715PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.091 |
| Waste Quantity: | 182 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150325 |
| Creation Date: | 6/24/2015 22:15:41 |
| Receipt Date: | 20150330 |
| Manifest ID: | 000139276MWI |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.079 |
| Waste Quantity: | 158 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150128 |
| Creation Date: | 3/23/2015 22:15:13 |
| Receipt Date: | 20150203 |
| Manifest ID: | 000937806PSC |
| Trans EPA ID: | CAD008364432 |
| Trans Name: | RHO CHEM LLC |
| Trans 2 EPA ID: | CAD983649880 |
| Trans 2 Name: | PSC ENVIRONMENTAL SERVICES OF POMONA LP |
| TSDF EPA ID: | CAD008364432 |

**SHERWIN-WILLIAMS #1533 (Continued)** **S118236074**

| | |
|---|---|
| Trans Name: | RHO CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 291 - Latex waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1075 |
| Waste Quantity: | 215 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

---

**D46** **FRAZEE ENTERPRISES LLC** **RCRA NonGen / NLR** **1026802354**
**SE** **2201 N. TUSTIN AVE. #120** **CAC003114354**
**< 1/8** **SANTA ANA, CA 92705**
**0.115 mi.**
**608 ft.** **Site 15 of 16 in cluster D**

**Relative:**
**Lower**

**Actual:**
**189 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20210412 |
| Handler Name: | FRAZEE ENTERPRISES LLC | |
| Handler Address: | | 2201 N. TUSTIN AVE. #120 |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC003114354 |
| Contact Name: | | DANIEL FRAZEE |
| Contact Address: | | 2201 N. TUSTIN AVE. #120 |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 619-991-0155 |
| Contact Fax: | | Not reported |
| Contact Email: | | CMCGUIRE@RMC.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2201 N. TUSTIN AVE. #120 |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705 |
| Owner Name: | | DANIEL FRAZEE |
| Owner Type: | | Other |
| Operator Name: | | DANIEL FRAZEE |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |

**FRAZEE ENTERPRISES LLC (Continued)** **1026802354**

| | |
|---|---|
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210415 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | DANIEL FRAZEE |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2201 N. TUSTIN AVE. #120 |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |

**FRAZEE ENTERPRISES LLC (Continued)** **1026802354**

Owner/Operator Telephone: 619-991-0155
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: DANIEL FRAZEE
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2201 N. TUSTIN AVE. #120
Owner/Operator City,State,Zip: SANTA ANA, CA 92705
Owner/Operator Telephone: 619-991-0155
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20210412
Handler Name: FRAZEE ENTERPRISES LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 236220
NAICS Description: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**D47** **DANE VALDEZ** **RCRA NonGen / NLR** **1026812375**
**SE** **2202 E. BUFFALO AVE** **CAC003124888**
**< 1/8** **SANTA ANA, CA 92705**
**0.120 mi.**
**634 ft.** **Site 16 of 16 in cluster D**

**Relative:**
**Lower**
**Actual:**
**189 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20210616
Handler Name: DANE VALDEZ
Handler Address: 2202 E. BUFFALO AVE
Handler City,State,Zip: SANTA ANA, CA 92705
EPA ID: CAC003124888
Contact Name: DANE VALDEZ
Contact Address: 2202 E. BUFFALO AVE

**DANE VALDEZ (Continued)** **1026812375**

| | |
|---|---|
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 562-607-5840 |
| Contact Fax: | Not reported |
| Contact Email: | RACHELSUPERIORENV@GMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2202 E. BUFFALO AVE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | DANE VALDEZ |
| Owner Type: | Other |
| Operator Name: | DANE VALDEZ |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |

**DANE VALDEZ (Continued)** **1026812375**

| | |
|---|---|
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210618 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | DANE VALDEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2202 E. BUFFALO AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 562-607-5840 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | DANE VALDEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2202 E. BUFFALO AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 562-607-5840 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210616 |
| Handler Name: DANE VALDEZ | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |

**DANE VALDEZ (Continued)** **1026812375**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**F48** **ORANGE COUNTY CEMETERY DIST** **LUST** **S104539413**
**West** **1919 SANTA CLARA AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.125 mi.**
**661 ft.** **Site 1 of 3 in cluster F**

**Relative:**
**Lower**

**Actual:**
**192 ft.**

LUST REG 8:

| | |
|---|---|
| Name: | ORANGE COUNTY CEMETERY DIST |
| Address: | 1919 SANTA CLARA AVE |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Case Closed |
| Case Number: | 083003699T |
| Local Case Num: | Not reported |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | Not reported |
| Funding: | Not reported |
| How Discovered: | Tank Closure |
| How Stopped: | Not reported |
| Leak Cause: | UNK |
| Leak Source: | UNK |
| Global ID: | T0605999012 |
| How Stopped Date: | 3/29/2000 |
| Enter Date: | 5/31/2000 |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | 3/29/2000 |
| Enforcement Date: | Not reported |
| Close Date: | 4/7/2000 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | 5/31/2000 |
| GW Qualifies: | Not reported |

**ORANGE COUNTY CEMETERY DIST (Continued)** **S104539413**

| | |
|---|---|
| Soil Qualifies: | < |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.767237 |
| Longitude: | -117.840749 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 1 |
| Max MTBE Soil: | .01 |
| MTBE Fuel: | 1 |
| MTBE Tested: | MTBE Detected. Site tested for MTBE & MTBE detected |
| MTBE Class: | * |
| Staff: | RS |
| Staff Initials: | JB |
| Lead Agency: | Local Agency |
| Local Agency: | Santa Ana, Orange County |
| Hydr Basin #: | COASTAL PLAIN OF ORA |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | No |

Summary: Not reported

---

**F49**
**West**
**1/8-1/4**
**0.125 mi.**
**661 ft.**

**ORANGE COUNTY CEMETERY DIST** **LUST** **U001578115**
**1919 E SANTA CLARA AVE** **HIST UST** **N/A**
**SANTA ANA, CA 92705** **Cortese**
**CERS**

**Site 2 of 3 in cluster F**

**Relative:**
**Lower**

**Actual:**
**192 ft.**

LUST:

| | |
|---|---|
| Name: | ORANGE COUNTY CEMETERY DIST |
| Address: | 1919 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Lead Agency: | SANTA ANA, CITY OF |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605999012 |
| Global Id: | T0605999012 |
| Latitude: | 33.768411 |
| Longitude: | -117.83988 |
| Status: | Completed - Case Closed |
| Status Date: | 04/07/2000 |
| Case Worker: | CC |
| RB Case Number: | 083003699T |
| Local Agency: | SANTA ANA, CITY OF |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605999012 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | CHRISTOPHER CIRAULO |
| Organization Name: | SANTA ANA, CITY OF |
| Address: | 1439 S. BROADWAY |

**ORANGE COUNTY CEMETERY DIST (Continued)** **U001578115**

City: SANTA ANA
Email: cciraulo@santa-ana.org
Phone Number: Not reported

Global Id: T0605999012
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0605999012
Action Type: Other
Date: 03/29/2000
Action: Leak Discovery

Global Id: T0605999012
Action Type: Other
Date: 03/29/2000
Action: Leak Stopped

Global Id: T0605999012
Action Type: ENFORCEMENT
Date: 04/07/2000
Action: Closure/No Further Action Letter

Global Id: T0605999012
Action Type: Other
Date: 04/07/2000
Action: Leak Reported

LUST:
Global Id: T0605999012
Status: Open - Case Begin Date
Status Date: 03/29/2000

Global Id: T0605999012
Status: Completed - Case Closed
Status Date: 04/07/2000

HIST UST:
Name: SANTA ANA CEMETERY
Address: 1919 E SANTA CLARA AVE
City,State,Zip: SANTA ANA, CA 92701
File Number: 0002EC3E
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002EC3E.pdf
Region: STATE
Facility ID: 00000032388
Facility Type: Other
Other Type: CEMETERY MAINTENANCE
Contact Name: SALVADOR S. MARTINEZ
Telephone: 7149518244

**ORANGE COUNTY CEMETERY DIST (Continued)** **U001578115**

| | |
|---|---|
| Owner Name: | ORANGE COUNTY CEMETERY DISTRIC |
| Owner Address: | 25751 TRABUCO ROAD |
| Owner City,St,Zip: | EL TORO, CA 92630 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | #2 |
| Year Installed: | Not reported |
| Tank Capacity: | 00000550 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor |

Click here for Geo Tracker PDF:

CORTESE:

| | |
|---|---|
| Name: | ORANGE COUNTY CEMETERY DIST |
| Address: | 1919 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605999012 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | ORANGE COUNTY CEMETERY DIST |
| Address: | 1919 E SANTA CLARA AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 230584 |
| CERS ID: | T0605999012 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | CHRISTOPHER CIRAULO - SANTA ANA, CITY OF |
| Entity Title: | Not reported |
| Affiliation Address: | 1439 S. BROADWAY |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |

**ORANGE COUNTY CEMETERY DIST (Continued)** **U001578115**

| | |
|---|---|
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | ROSE SCOTT - SANTA ANA RWQCB (REGION 8) |
| Entity Title: | Not reported |
| Affiliation Address: | 3737 MAIN STREET, SUITE 500 |
| Affiliation City: | RIVERSIDE |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9513206375 |

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**F50** **SANTA ANA CEMETERY** **SWEEPS UST** **S101619747**
**West** **1919 E SANTA CLARA AVE** **CA FID UST** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705** **HWTS**
**0.125 mi.**
**661 ft.** **Site 3 of 3 in cluster F**

**Relative:**
**Lower**

**Actual:**
**192 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | SANTA ANA CEMETERY |
| Address: | 1919 E SANTA CLARA AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 32388 |
| Number: | 9 |
| Board Of Equalization: | Not reported |
| Referral Date: | 07-01-85 |
| Action Date: | Not reported |
| Created Date: | 07-31-88 |
| Owner Tank Id: | #2 |
| SWRCB Tank Id: | 30-020-032388-000001 |
| Tank Status: | A |
| Capacity: | 550 |
| Active Date: | 07-01-85 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | LEADED |
| Number Of Tanks: | 1 |

CA FID UST:

| | |
|---|---|
| Facility ID: | 30017854 |
| Regulated By: | UTNKA |
| Regulated ID: | 00032388 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7149518244 |
| Mail To: | Not reported |
| Mailing Address: | 25751 TRABUCO RD |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |

**SANTA ANA CEMETERY (Continued)** **S101619747**

EPA ID: Not reported
Comments: Not reported
Status: Active

HWTS:

| | |
|---|---|
| Name: | SANTA ANA CEMETERY |
| Address: | 1919 E SANTA CLARA AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL000251231 |
| Inactive Date: | 06/30/2016 |
| Create Date: | 05/01/2002 |
| Last Act Date: | 01/12/2017 |
| Mailing Name: | Not reported |
| Mailing Address: | 1919 E SANTA CLARA AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927050000 |
| Owner Name: | ORANGE COUNTY CEMETERY DISTRICT |
| Owner Address: | 27571 TRABUCO ROAD |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | LAKE FOREST, CA 926300000 |
| Contact Name: | JULIO AMARILLAS |
| Contact Address: | 1919 E SANTA CLARA AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000251231 |
| Create Date: | 2002-05-01 13:31:10.170 |
| NAICS Code: | 81399 |
| NAICS Description: | Other Similar Organizations (except Business, Professional, Labor, and Political Organizations) |
| Issued EPA ID Date: | 2002-05-01 13:31:10.15300 |
| Inactive Date: | 2016-06-30 00:00:00 |
| Facility Name: | SANTA ANA CEMETERY |
| Facility Address: | 1919 E SANTA CLARA AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92705 |

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**G51** **THE BASCOM GROUP LLC** **RCRA NonGen / NLR** **1024761051**
**NNE** **2414 N. TUSTIN AVE.** **CAC002980908**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.137 mi.**
**723 ft.** **Site 1 of 2 in cluster G**

**Relative:**
**Higher**

**Actual:**
**198 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20180918 |
| Handler Name: | THE BASCOM GROUP LLC | |
| Handler Address: | | 2414 N. TUSTIN AVE. |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC002980908 |
| Contact Name: | | LEE NGUYEN |
| Contact Address: | | 26 CORPORATE PARK DR. #200 |
| Contact City,State,Zip: | | IRVINE, CA 92606 |

**THE BASCOM GROUP LLC (Continued)** **1024761051**

| | |
|---|---|
| Contact Telephone: | 949-955-0888 |
| Contact Fax: | Not reported |
| Contact Email: | DTHOMPSON@PARCENVIRONMENTAL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 26 CORPORATE PARK DR. #200 |
| Mailing City,State,Zip: | IRVINE, CA 92606 |
| Owner Name: | THE BASCOM GROUP LLC |
| Owner Type: | Other |
| Operator Name: | LEE NGUYEN |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |

**THE BASCOM GROUP LLC (Continued)** **1024761051**

| | |
|---|---|
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20181001 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | THE BASCOM GROUP LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 26 CORPORATE PARK DR. #200 |
| Owner/Operator City,State,Zip: | IRVINE, CA 92606 |
| Owner/Operator Telephone: | 949-955-0888 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | LEE NGUYEN |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 26 CORPORATE PARK DR. #200 |
| Owner/Operator City,State,Zip: | IRVINE, CA 92606 |
| Owner/Operator Telephone: | 949-955-0888 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20180918 |
| Handler Name: THE BASCOM GROUP LLC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |

**THE BASCOM GROUP LLC (Continued)** **1024761051**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**G52 NNE 1/8-1/4 0.137 mi. 723 ft.** **THE BASCOM GROUP LLC** **RCRA NonGen / NLR** **1025844909**
**2414 N. TUSTIN AVE.** **CAC003024528**
**SANTA ANA, CA 92705**

**Site 2 of 2 in cluster G**

**Relative: Higher**
**Actual: 198 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20190717 |
| Handler Name: | THE BASCOM GROUP LLC |
| Handler Address: | 2414 N. TUSTIN AVE. |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAC003024528 |
| Contact Name: | LEE NGUYEN |
| Contact Address: | 26 CORPORATE PARK DR. #200 |
| Contact City,State,Zip: | IRVINE, CA 92606 |
| Contact Telephone: | 949-955-0888 |
| Contact Fax: | Not reported |
| Contact Email: | DTHOMPSON@PARCENVIRONMENTAL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 26 CORPORATE PARK DR. #200 |
| Mailing City,State,Zip: | IRVINE, CA 92606 |
| Owner Name: | THE BASCOM GROUP LLC |
| Owner Type: | Other |
| Operator Name: | LEE NGUYEN |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |

**THE BASCOM GROUP LLC (Continued)** **1025844909**

| | |
|---|---|
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20190729 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | THE BASCOM GROUP LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 26 CORPORATE PARK DR. #200 |
| Owner/Operator City,State,Zip: | IRVINE, CA 92606 |
| Owner/Operator Telephone: | 949-955-0888 |

**THE BASCOM GROUP LLC (Continued)** **1025844909**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: LEE NGUYEN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 26 CORPORATE PARK DR. #200
Owner/Operator City,State,Zip: IRVINE, CA 92606
Owner/Operator Telephone: 949-955-0888
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20190717
Handler Name: THE BASCOM GROUP LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H53** **MATT REEVES** **RCRA NonGen / NLR** **1026821323**
**SSE** **2141 N TUSTIN AVE** **CAC003134234**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.150 mi.**
**790 ft.** **Site 1 of 9 in cluster H**

**Relative:**
**Lower**

**Actual:**
**187 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 20210812
Handler Name: MATT REEVES
Handler Address: 2141 N TUSTIN AVE
Handler City,State,Zip: SANTA ANA, CA 92705
EPA ID: CAC003134234
Contact Name: MATT REEVES
Contact Address: 2141 N TUSTIN AVE
Contact City,State,Zip: SANTA ANA, CA 92705

**MATT REEVES (Continued)** **1026821323**

| | |
|---|---|
| Contact Telephone: | 714-553-3597 |
| Contact Fax: | Not reported |
| Contact Email: | KCHRISTOPHERSON@HAZAWAYTODAY.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2141 N TUSTIN AVE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | MATT REEVES |
| Owner Type: | Other |
| Operator Name: | MATT REEVES |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |

**MATT REEVES (Continued)** **1026821323**

| | |
|---|---|
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210812 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MATT REEVES |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2141 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-553-3597 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MATT REEVES |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2141 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-553-3597 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210812 |
| Handler Name: MATT REEVES | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |

**MATT REEVES (Continued)** **1026821323**

Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H54** **FOOTHILL DRY CLEANERS** **RCRA-SQG** **1000409506**
**SSE** **2120 N TUSTIN AVE** **FINDS** **CAD981454101**
**1/8-1/4** **SANTA ANA, CA 92701** **ECHO**
**0.165 mi.** **EMI**
**871 ft.** **Site 2 of 9 in cluster H** **HAZNET**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19860211 |
| Handler Name: | FOOTHILL DRY CLEANERS | |
| Handler Address: | | 2120 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92701 |
| EPA ID: | | CAD981454101 |
| Contact Name: | | SI WAN PARK |
| Contact Address: | | 2120 N TUSTIN AVE |
| Contact City,State,Zip: | | SANTA ANA, CA 92701 |
| Contact Telephone: | | 714-514-8981 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | CA |
| State District: | | 4 |
| Mailing Address: | | 2120 N TUSTIN AVE |
| Mailing City,State,Zip: | | SANTA ANA, CA 92701 |
| Owner Name: | | SI WAN PARK |
| Owner Type: | | Private |
| Operator Name: | | NOT REQUIRED |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

| | |
|---|---|
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20020627 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SI WAN PARK |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2120 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92701 |

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

Owner/Operator Telephone: 714-514-8981
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19860211
Handler Name: FOOTHILL DRY CLEANERS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002712752

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000409506 |
| Registry ID: | 110002712752 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110002712752 |
| Name: | FOOTHILL DRY CLEANERS |
| Address: | 2120 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |

EMI:

| | |
|---|---|
| Name: | FOOTHILL CLEANERS, CHANG JIN K |
| Address: | 2120 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Year: | 1987 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 44219 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | FOOTHILL CLEANERS, CHANG JIN K |
| Address: | 2120 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Year: | 1990 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 44219 |
| Air District Name: | SC |
| SIC Code: | 7216 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 1 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

HAZNET:

| | |
|---|---|
| Name: | FOOTHILL DRY CLEANERS |
| Address: | 2120 N TUSTIN AVE |
| Address 2: | Not reported |

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

| | |
|---|---|
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact: | UNDELIVERABLE 1/95 SURVEY HN |
| Telephone: | -- |
| Mailing Name: | Not reported |
| Mailing Address: | 2120 N TUSTIN AVE |
| | |
| Year: | 1996 |
| Gepaid: | CAD981454101 |
| TSD EPA ID: | CAD981397417 |
| CA Waste Code: | 211 - Halogenated solvents (chloroforms, methyl chloride, perchloroethylene, etc) |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.5882 |
| | |
| Year: | 1987 |
| Gepaid: | CAD981454101 |
| TSD EPA ID: | CAD020748125 |
| CA Waste Code: | 181 - Other inorganic solid waste |
| Disposal Method: | 03 - |
| Tons: | 4.0866 |
| | |
| Year: | 1987 |
| Gepaid: | CAD981454101 |
| TSD EPA ID: | CAD020748125 |
| CA Waste Code: | 181 - Other inorganic solid waste |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 0.25 |
| | |
| Year: | 1987 |
| Gepaid: | CAD981454101 |
| TSD EPA ID: | CAD020748125 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | 03 - |
| Tons: | 0 |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAD981454101 |
| | |
| Shipment Date: | 19960405 |
| Creation Date: | 10/4/1996 0:00:00 |
| Receipt Date: | 19960408 |
| Manifest ID: | 95620026 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1668 |

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

| | |
|---|---|
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19960405 |
| Creation Date: | 10/4/1996 0:00:00 |
| Receipt Date: | 19960408 |
| Manifest ID: | 95620026 |
| Trans EPA ID: | CAD981414386 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981397417 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981397417 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 211 - Halogenated solvents (chloroform, methyl chloride, perchloroethylene, etc. |
| RCRA Code: | F002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.4214 |
| Waste Quantity: | 0.5 |
| Quantity Unit: | Y |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | FOOTHILL DRY CLEANERS |
| Address: | 2120 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAD981454101 |
| Inactive Date: | 01/01/1995 |
| Create Date: | 04/10/1987 |
| Last Act Date: | 08/10/2004 |
| Mailing Name: | Not reported |
| Mailing Address: | 2120 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927010000 |
| Owner Name: | -- |
| Owner Address: | -- |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | --, 99 -- |
| Contact Name: | UNDELIVERABLE 1/95 SURVEY HN |
| Contact Address: | -- |
| Contact Address 2: | Not reported |
| City,State,Zip: | --, 99 -- |
| | |
| Name: | FOOTHILL DRY CLEANERS |
| Address: | 2120 N TUSTIN AVE |

**FOOTHILL DRY CLEANERS (Continued)** **1000409506**

| | |
|---|---|
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAX000130963 |
| Inactive Date: | 04/30/1986 |
| Create Date: | 12/06/1984 |
| Last Act Date: | 07/10/2001 |
| Mailing Name: | Not reported |
| Mailing Address: | -- |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927010000 |
| Owner Name: | -- |
| Owner Address: | -- |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | --, 99 -- |
| Contact Name: | UNDELIVERABLE PER SURVEY |
| Contact Address: | 12/94 NW |
| Contact Address 2: | Not reported |
| City,State,Zip: | --, 99 -- |

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**H55** **FOOTHILL CLEANERS** **DRYCLEANERS** **S121693269**
**SSE** **2120 N TUSTIN AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92701**
**0.165 mi.**
**871 ft.** **Site 3 of 9 in cluster H**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | FOOTHILL CLEANERS |
| Address: | 2120 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 100554 |
| Application Number: | 292202 |
| Permit Number: | D87340 |
| Status: | A |
| Representative Name: | SI WAN PARK |
| Representative Telephone: | 714 5418981 |
| Permit Status: | INACT_NR |
| BCAT Number: | 000601 |
| BCAT Description: | DRY CLEANING, DRY-TO-DRY NON-VENT, PERC |
| CCAT Number: | 04 |
| CCAT Description: | VAPOR RECOVERY UNIT COMPRESS & CONDENSE |
| UTM East: | 0 |
| UTM North: | 0 |
| Application Date: | 05/02/1994 |
| PO Issue Date: | 12/22/1994 |
| NAICS Code: | 812320 |
| SIC Code: | Not reported |

**H56 SSE 1/8-1/4 0.165 mi. 871 ft.** | **FOOTHILL CLEANERS** | **DRYCLEANERS** | **S121697855** | **N/A**
**2120 N TUSTIN**
**SANTA ANA, CA 92701**

**Site 4 of 9 in cluster H**

**Relative: Lower**
**Actual: 186 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | FOOTHILL CLEANERS |
| Address: | 2120 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 44219 |
| Application Number: | 122689 |
| Permit Number: | M38256 |
| Status: | O |
| Representative Name: | CHANG J. KANG |
| Representative Telephone: | 714 5418981 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.6000061 |
| UTM North: | 3736.3000488 |
| Application Date: | 05/25/1984 |
| PO Issue Date: | 06/27/1984 |
| NAICS Code: | Not reported |
| SIC Code: | 7216 |

| | |
|---|---|
| Name: | FOOTHILL CLEANERS |
| Address: | 2120 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 44219 |
| Application Number: | 173030 |
| Permit Number: | D02338 |
| Status: | O |
| Representative Name: | CHANG J. KANG |
| Representative Telephone: | 714 5418981 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.6000061 |
| UTM North: | 3736.3000488 |
| Application Date: | 08/10/1988 |
| PO Issue Date: | 09/13/1988 |
| NAICS Code: | Not reported |
| SIC Code: | 7216 |

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**H57 SSE 1/8-1/4 0.165 mi. 871 ft.** | **FOOTHILL CLEANERS** | **DRYCLEANERS** | **S121696652** | **N/A**
**2120 N TUSTIN AVE**
**SANTA ANA, CA 92701**

**Site 5 of 9 in cluster H**

**Relative: Lower**
**Actual: 186 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | FOOTHILL CLEANERS |
| Address: | 2120 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 17442 |

**FOOTHILL CLEANERS (Continued)** **S121696652**

| | |
|---|---|
| Application Number: | 06445A |
| Permit Number: | S03913 |
| Status: | O |
| Representative Name: | Not reported |
| Representative Telephone: | Not reported |
| Permit Status: | INACTIVE |
| BCAT Number: | 000234 |
| BCAT Description: | DRY CLEANING EQUIP PERCHLOROETHYLENE |
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 0 |
| UTM North: | 0 |
| Application Date: | 12/31/9999 |
| PO Issue Date: | 02/06/1980 |
| NAICS Code: | Not reported |
| SIC Code: | 7216 |

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**H58** **CARL & LENA KLATT TRUSTS** **SWEEPS UST** **S106924019**
**South** **2102 N TUSTIN AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92701**
**0.166 mi.**
**878 ft.** **Site 6 of 9 in cluster H**

**Relative:** **Lower**
**Actual:** **186 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | CARL & LENA KLATT TRUSTS |
| Address: | 2102 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 492 |
| Number: | Not reported |
| Board Of Equalization: | 44-034628 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000492-000001 |
| Tank Status: | Not reported |
| Capacity: | 500 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | LEADED |
| Number Of Tanks: | 1 |

---

**I59** **BEVERLY MAYO** **RCRA NonGen / NLR** **1026477560**
**SSW** **2113 CATALINA AVENUE** **CAC003083407**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.170 mi.**
**897 ft.** **Site 1 of 2 in cluster I**

**Relative:** **Lower**
**Actual:** **186 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20200911 |
| Handler Name: | BEVERLY MAYO | |
| Handler Address: | | 2113 CATALINA AVENUE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC003083407 |

**BEVERLY MAYO (Continued)** **1026477560**

| | |
|---|---|
| Contact Name: | BEVERLY MAYO |
| Contact Address: | 2113 CATALINA AVENUE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-856-4653 |
| Contact Fax: | Not reported |
| Contact Email: | TAMMYHURLEY@ALLIANCE-ENVIRO.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2113 CATALINA AVENUE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | BEVERLY MAYO |
| Owner Type: | Other |
| Operator Name: | BEVERLY MAYO |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |

**BEVERLY MAYO (Continued)** **1026477560**

| | |
|---|---|
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20200920 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BEVERLY MAYO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2113 CATALINA AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-856-4653 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | BEVERLY MAYO |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2113 CATALINA AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-856-4653 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20200911 |
| Handler Name: BEVERLY MAYO | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |

**BEVERLY MAYO (Continued)** **1026477560**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H60** **WHITE HORSE CLEANERS, M. DEYERMENJIAN** **DRYCLEANERS** **S121696057**
**SSE** **2112 N TUSTIN AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.170 mi.**
**900 ft.** **Site 7 of 9 in cluster H**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

DRYCLEAN SOUTH COAST:
Name: WHITE HORSE CLEANERS, M. DEYERMENJIAN
Address: 2112 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 150726
Application Number: 464842
Permit Number: F87601
Status: A
Representative Name: MAIDA DEYERMENJIAN
Representative Telephone: 714 8357526
Permit Status: INACTIVE
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC
CCAT Number: Not reported
CCAT Description: Not reported
UTM East: 422.6000061
UTM North: 3736.1999512
Application Date: 01/24/2007
PO Issue Date: 02/13/2007
NAICS Code: 812320
SIC Code: 7216

Name: WHITE HORSE CLEANERS, M. DEYERMENJIAN
Address: 2112 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 150726
Application Number: 465811
Permit Number: F88625
Status: A
Representative Name: MAIDA DEYERMENJIAN
Representative Telephone: 714 8357526
Permit Status: INACT_NR
BCAT Number: 000603
BCAT Description: DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC

**WHITE HORSE CLEANERS, M. DEYERMENJIAN (Continued)** **S121696057**

| | |
|---|---|
| CCAT Number: | Not reported |
| CCAT Description: | Not reported |
| UTM East: | 422.6000061 |
| UTM North: | 3736.1999512 |
| Application Date: | 02/23/2007 |
| PO Issue Date: | 03/29/2007 |
| NAICS Code: | 812320 |
| SIC Code: | 7216 |

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**H61** **WHITE HORSE CLEANERS, PAUL KRIEGER** **DRYCLEANERS** **S121695039**
**SSE** **2112 N TUSTIN AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.170 mi.**
**900 ft.** **Site 8 of 9 in cluster H**

**Relative:**
**Lower**
**Actual:**
**186 ft.**

DRYCLEAN SOUTH COAST:

| | |
|---|---|
| Name: | WHITE HORSE CLEANERS, PAUL KRIEGER |
| Address: | 2112 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 133114 |
| Application Number: | 403330 |
| Permit Number: | F53346 |
| Status: | S |
| Representative Name: | PAUL KRIEGER |
| Representative Telephone: | 714 8357526 |
| Permit Status: | INACTIVE |
| BCAT Number: | 000603 |
| BCAT Description: | DRY CLEANING,DRY-TO-DRY NV,W/ SIC,PERC |
| CCAT Number: | 04 |
| CCAT Description: | VAPOR RECOVERY UNIT COMPRESS & CONDENSE |
| UTM East: | 0 |
| UTM North: | 0 |
| Application Date: | 06/20/2002 |
| PO Issue Date: | 07/06/2002 |
| NAICS Code: | Not reported |
| SIC Code: | 7216 |

---

**H62** **WHITE HORSE CLEANERS** **DRYCLEANERS** **S108541417**
**SSE** **2112 N TUSTIN AVE** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.170 mi.**
**900 ft.** **Site 9 of 9 in cluster H**

**Relative:**
**Lower**
**Actual:**
**186 ft.**

DRYCLEANERS:

| | |
|---|---|
| Name: | WHITE HORSE CLEANERS |
| Address: | 2112 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 927057828 |
| EPA Id: | CAL000297041 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 07/28/2005 |
| Facility Active: | No |
| Inactive Date: | 06/30/2007 |
| Facility Addr2: | Not reported |

**WHITE HORSE CLEANERS (Continued)** **S108541417**

| | |
|---|---|
| Owner Name: | PAUL KRIEGER |
| Owner Address: | 872 LIARD PL |
| Owner Address 2: | Not reported |
| Owner Telephone: | 7145576832 |
| Contact Name: | PAUL KRIEGER |
| Contact Address: | 872 LIARD PL |
| Contact Address 2: | Not reported |
| Contact Telephone: | 7145576832 |
| Contact Fax: | 7148357926 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 2112 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City: | SANTA ANA |
| Mailing State: | CA |
| Mailing Zip: | 927057828 |
| Owner Fax: | Not reported |
| Region Code: | 4 |
| Latitude: | 33.764824 |
| Longitude: | -117.835763 |

| | |
|---|---|
| Name: | WHITE HORSE CLEANERS |
| Address: | 2112 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 927057828 |
| EPA Id: | CAL000322460 |
| NAICS Code: | 81232 |
| NAICS Description: | Drycleaning and Laundry Services (except Coin-Operated) |
| SIC Code: | 7211 |
| SIC Description: | Power Laundries, Family and Commercial |
| Create Date: | 07/20/2007 |
| Facility Active: | No |
| Inactive Date: | 06/30/2010 |
| Facility Addr2: | Not reported |
| Owner Name: | MAIDA DEYERMNJIAN |
| Owner Address: | 2112 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner Telephone: | 7148357526 |
| Contact Name: | MAIDA DEYERMENJIAN |
| Contact Address: | 2112 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| Contact Telephone: | 7148357526 |
| Contact Fax: | 7148357926 |
| Mailing Name: | Not reported |
| Mailing Address 1: | 458 N WAYFIELD ST |
| Mailing Address 2: | Not reported |
| Mailing City: | ORANGE |
| Mailing State: | CA |
| Mailing Zip: | 928677661 |
| Owner Fax: | 7148357926 |
| Region Code: | 4 |
| Latitude: | 33.76486 |
| Longitude: | -117.83579 |

**63 SE 1/8-1/4 0.172 mi. 906 ft.** | **GEORGE BARNET**
**2210 EAST AVALON**
**SANTA ANA, CA 92705** | **RCRA NonGen / NLR** | **1024765274**
**CAC002985143**

**Relative: Lower**

**Actual: 188 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20181017 |
| Handler Name: | GEORGE BARNET | |
| Handler Address: | | 2210 EAST AVALON |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC002985143 |
| Contact Name: | | GEORGE BARNET |
| Contact Address: | | 2210 EAST AVALON |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 714-389-3925 |
| Contact Fax: | | Not reported |
| Contact Email: | | KC@AQHIINC.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2210 EAST AVALON |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705 |
| Owner Name: | | GEORGE BARNET |
| Owner Type: | | Other |
| Operator Name: | | GEORGE BARNET |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**GEORGE BARNET (Continued)** **1024765274**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20181120 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | GEORGE BARNET |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2210 EAST AVALON |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-389-3925 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | GEORGE BARNET |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2210 EAST AVALON |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-389-3925 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**GEORGE BARNET (Continued)** **1024765274**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20181017 |
| Handler Name: | GEORGE BARNET |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**J64** **MARTHA WORALL** **RCRA NonGen / NLR** **1026483569**
**WSW** **1913 E. AVALON AVENUE** **CAC003089642**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.175 mi.**
**925 ft.** **Site 1 of 3 in cluster J**

**Relative:**
**Lower**

**Actual:**
**188 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20201022 |
| Handler Name: | MARTHA WORALL |
| Handler Address: | 1913 E. AVALON AVENUE |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAC003089642 |
| Contact Name: | MARTHA WORALL |
| Contact Address: | 1913 E. AVALON AVENUE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-550-9958 |
| Contact Fax: | Not reported |
| Contact Email: | KC@AQHIINC.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1913 E. AVALON AVENUE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | MARTHA WORALL |

**MARTHA WORALL (Continued)** **1026483569**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | MARTHA WORALL |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20201026 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**MARTHA WORALL (Continued)** **1026483569**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MARTHA WORALL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1913 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-550-9958 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MARTHA WORALL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1913 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-550-9958 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20201022 |
| Handler Name: MARTHA WORALL | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**J65 WSW 1/8-1/4 0.180 mi. 949 ft.** | **KATELYN FINLEY**
**1918 E. AVALON AVENUE**
**SANTA ANA, CA 92705**

**Site 2 of 3 in cluster J**

**RCRA NonGen / NLR** | **1026474354**
**CAC003080050**

**Relative: Lower**
**Actual: 187 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20200819 |
| Handler Name: | KATELYN FINLEY | |
| Handler Address: | | 1918 E. AVALON AVENUE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC003080050 |
| Contact Name: | | KATELYN FINLEY |
| Contact Address: | | 1918 E. AVALON AVENUE |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 714-335-1510 |
| Contact Fax: | | Not reported |
| Contact Email: | | KC@AQHIINC.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1918 E. AVALON AVENUE |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705 |
| Owner Name: | | KATELYN FINLEY |
| Owner Type: | | Other |
| Operator Name: | | KATELYN FINLEY |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**KATELYN FINLEY (Continued)** **1026474354**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20200904 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | KATELYN FINLEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1918 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-335-1510 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | KATELYN FINLEY |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1918 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-335-1510 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**KATELYN FINLEY (Continued)** **1026474354**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20200819 |
| Handler Name: KATELYN FINLEY | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**I66** **STEVE BOWERS** **RCRA NonGen / NLR** **1026820848**
**South** **2118 CATALINA AVE** **CAC003133743**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.194 mi.**
**1023 ft.** **Site 2 of 2 in cluster I**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20210810 |
| Handler Name: STEVE BOWERS | |
| Handler Address: | 2118 CATALINA AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAC003133743 |
| Contact Name: | STEVE BOWERS |
| Contact Address: | 2118 CATALINA AVE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-292-8222 |
| Contact Fax: | Not reported |
| Contact Email: | GMORENO@VIKINGENVIRO.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2118 CATALINA AVE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | STEVE BOWERS |

**STEVE BOWERS (Continued)** **1026820848**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | STEVE BOWERS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210811 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**STEVE BOWERS (Continued)** **1026820848**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | STEVE BOWERS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2118 CATALINA AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-292-8222 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | STEVE BOWERS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2118 CATALINA AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-292-8222 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210810 |
| Handler Name: STEVE BOWERS | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**K67 ESE 1/8-1/4 0.204 mi. 1076 ft.** | **LANELL O'NEILL 2217 PASADENA ST SANTA ANA, CA 92705** | **RCRA NonGen / NLR** | **1026815628 CAC003128306**

**Site 1 of 2 in cluster K**

**Relative: Lower**

**Actual: 191 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20210708 |
| Handler Name: | LANELL O'NEILL | |
| Handler Address: | | 2217 PASADENA ST |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC003128306 |
| Contact Name: | | LANELL O'NEILL |
| Contact Address: | | 2918 EAST CHAPEL HILL RD |
| Contact City,State,Zip: | | ORANGE, CA 92867 |
| Contact Telephone: | | 714-637-9217 |
| Contact Fax: | | Not reported |
| Contact Email: | | LANONEILL42@YAHOO.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2918 EAST CHAPEL HILL RD |
| Mailing City,State,Zip: | | ORANGE, CA 92867 |
| Owner Name: | | LANELL O'NEILL |
| Owner Type: | | Other |
| Operator Name: | | LANELL O'NEILL |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**LANELL O'NEILL (Continued)** **1026815628**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210709 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | LANELL O'NEILL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2918 EAST CHAPEL HILL RD |
| Owner/Operator City,State,Zip: | ORANGE, CA 92867 |
| Owner/Operator Telephone: | 714-637-9217 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | LANELL O'NEILL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2918 EAST CHAPEL HILL RD |
| Owner/Operator City,State,Zip: | ORANGE, CA 92867 |
| Owner/Operator Telephone: | 714-637-9217 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**LANELL O'NEILL (Continued)** **1026815628**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210708 |
| Handler Name: LANELL O'NEILL | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

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**K68 ESE 1/8-1/4 0.204 mi. 1076 ft.** **LANELL O?NEILL 2217 PASADENA ST, SANTA ANA, CA 92705** **RCRA NonGen / NLR** **1026484978 CAC003091092**

**Site 2 of 2 in cluster K**

**Relative: Lower**

**Actual: 191 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20201103 |
| Handler Name: LANELL O?NEILL | |
| Handler Address: | 2217 PASADENA ST, |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAC003091092 |
| Contact Name: | LANELL O'NEILL |
| Contact Address: | 2217 PASADENA ST, |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 949-274-6025 |
| Contact Fax: | Not reported |
| Contact Email: | JEFFREY_ALTHOUSE@ATT.NET |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2217 PASADENA ST, |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | LANELL O'NEILL |

**LANELL O?NEILL (Continued)** **1026484978**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | LANELL O'NEILL |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20201106 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**LANELL O?NEILL (Continued)** **1026484978**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | LANELL O'NEILL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2217 PASADENA ST, |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 949-274-6025 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | LANELL O'NEILL |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2217 PASADENA ST, |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 949-274-6025 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20201103 |
| Handler Name: LANELL O NEILL | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**L69 SSE 1/8-1/4 0.209 mi. 1103 ft.** | **SPEEDIE CLEAN $5 IN 5 MIN EXPRESS CAR WASH**
**2035 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**SWEEPS UST**
**CA FID UST**
**HWTS**

**S101589675**
**N/A**

**Site 1 of 16 in cluster L**

**Relative: Lower**

**Actual: 186 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 477 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 03-03-92 |
| Action Date: | 03-03-92 |
| Created Date: | 03-03-92 |
| Owner Tank Id: | UNL#1 |
| SWRCB Tank Id: | 30-020-000477-000001 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 03-03-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 2 |

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 477 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 03-03-92 |
| Action Date: | 03-03-92 |
| Created Date: | 03-03-92 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000477-000002 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 03-03-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

CA FID UST:

| | |
|---|---|
| Facility ID: | 30017813 |
| Regulated By: | UTNKA |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7148366111 |
| Mail To: | Not reported |
| Mailing Address: | 260 NEWPORT CENTER DR |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |

**SPEEDIE CLEAN $5 IN 5 MIN EXPRESS CAR WASH (Continued)** **S101589675**

Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

HWTS:

| | |
|---|---|
| Name: | SPEEDIE CLEAN $5 IN 5 MIN EXPRESS CAR WASH |
| Address: | 2035 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL000399804 |
| Inactive Date: | 06/30/2015 |
| Create Date: | 08/18/2014 |
| Last Act Date: | 01/27/2016 |
| Mailing Name: | Not reported |
| Mailing Address: | 2035 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | SPEEDIE CLEAN WASHES INC |
| Owner Address: | 2035 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Name: | RONALD JONES |
| Contact Address: | 2035 N TUSTIN AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000399804 |
| Create Date: | 2014-08-18 11:15:13.190 |
| NAICS Code: | 811192 |
| NAICS Description: | Car Washes |
| Issued EPA ID Date: | 2014-08-18 11:15:13.17300 |
| Inactive Date: | 2015-06-30 00:00:00 |
| Facility Name: | SPEEDIE CLEAN $5 IN 5 MIN EXPRESS CAR WASH |
| Facility Address: | 2035 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92705 |

---

**L70** **BEACON BAY AUTO WASH** **LUST** **S106716468**
**SSE** **2035 TUSTIN AVE. N** **Cortese** **N/A**
**1/8-1/4** **SANTA ANA, CA** **CERS**
**0.209 mi.**
**1103 ft.** **Site 2 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

LUST:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 TUSTIN AVE. N |
| City,State,Zip: | SANTA ANA, CA |
| Lead Agency: | SANTA ANA RWQCB (REGION 8) |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T060598312 |

**BEACON BAY AUTO WASH (Continued)** **S106716468**

| | |
|---|---|
| Global Id: | T060598312 |
| Latitude: | 33.764417 |
| Longitude: | -117.835055 |
| Status: | Completed - Case Closed |
| Status Date: | 11/18/2003 |
| Case Worker: | Not reported |
| RB Case Number: | 083003832T |
| Local Agency: | Not reported |
| File Location: | Not reported |
| Local Case Number: | Not reported |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T060598312 |
| Action Type: | ENFORCEMENT |
| Date: | 01/22/2002 |
| Action: | Staff Letter |
| | |
| Global Id: | T060598312 |
| Action Type: | Other |
| Date: | 01/02/1965 |
| Action: | Leak Reported |

LUST:

| | |
|---|---|
| Global Id: | T060598312 |
| Status: | Open - Case Begin Date |
| Status Date: | 11/29/2001 |
| | |
| Global Id: | T060598312 |
| Status: | Open - Site Assessment |
| Status Date: | 11/29/2001 |
| | |
| Global Id: | T060598312 |
| Status: | Completed - Case Closed |
| Status Date: | 11/18/2003 |

LUST REG 8:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 TUSTIN AVE. N |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Leak being confirmed |
| Case Number: | 083003832T |
| Local Case Num: | Not reported |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | Not reported |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | Not reported |
| Funding: | Not reported |
| How Discovered: | Tank Closure |

**BEACON BAY AUTO WASH (Continued)** **S106716468**

| | |
|---|---|
| How Stopped: | Not reported |
| Leak Cause: | UNK |
| Leak Source: | UNK |
| Global ID: | T060598312 |
| How Stopped Date: | Not reported |
| Enter Date: | Not reported |
| Date Confirmation of Leak Began: | 11/29/2001 |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | Not reported |
| Enforcement Date: | Not reported |
| Close Date: | Not reported |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | Not reported |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 0 |
| Longitude: | 0 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |
| MTBE Class: | * |
| Staff: | NOM |
| Staff Initials: | Not reported |
| Lead Agency: | Local Agency |
| Local Agency: | Not reported |
| Hydr Basin #: | Not reported |
| Beneficial: | Not reported |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |
| Summary: | Haz Mat incident report filed |

CORTESE:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 TUSTIN AVE. N |
| City,State,Zip: | SANTA ANA, CA |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T060598312 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |

**BEACON BAY AUTO WASH (Continued)** **S106716468**

| | |
|---|---|
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 TUSTIN AVE. N |
| City,State,Zip: | SANTA ANA, CA |
| Site ID: | 224344 |
| CERS ID: | T060598312 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

---

**L71** **BEACON BAY AUTO WASH** **UST** **U003781951**
**SSE** **2035 N. TUSTIN AVE.** **N/A**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.209 mi.**
**1103 ft.** **Site 3 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

UST:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2035 N. TUSTIN AVE. |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 30-020-sa0477 |
| Permitting Agency: | SANTA ANA, CITY OF |
| Latitude: | 33.7658129 |
| Longitude: | -117.833723 |

---

**L72** **JIFFY LUBE #1303** **CERS HAZ WASTE** **S113124676**
**SSE** **2025 N TUSTIN AVE** **CERS TANKS** **N/A**
**1/8-1/4** **SANTA ANA, CA 91773** **HAZNET**
**0.219 mi.** **CERS**
**1154 ft.** **Site 4 of 16 in cluster L** **HWTS**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | JIFFY LUBE #1303 |
| Address: | 2025 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 418295 |
| CERS ID: | 10774366 |
| CERS Description: | Hazardous Waste Generator |

CERS TANKS:

| | |
|---|---|
| Name: | JIFFY LUBE #1303 |
| Address: | 2025 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 418295 |
| CERS ID: | 10774366 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

CERS Description: Aboveground Petroleum Storage

HAZNET:

| | |
|---|---|
| Name: | JIFFY LUBE #1303 |
| Address: | 2025 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 91773 |
| Contact: | ELIAS NAJJAR |
| Telephone: | 9095928484 |
| Mailing Name: | Not reported |
| Mailing Address: | 490 W ARROW HWY STE D |
| | |
| Year: | 2019 |
| Gepaid: | CAL000438271 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.47750 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000438271 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.87570 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000438271 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.16800 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000438271 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.10000 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.30000 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.25 |
| | |
| Year: | 2014 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 491 - Unspecified sludge waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.15 |
| | |
| Year: | 2013 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.5838 |
| | |
| Year: | 2006 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.21 |
| | |
| Year: | 2005 |
| Gepaid: | CAL000265785 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | - |
| Disposal Method: | R01 - Recycler |
| Tons: | Not reported |

Click this hyperlink while viewing on your computer to access
5 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAL000265785 |
| | |
| Shipment Date: | 20030410 |
| Creation Date: | 7/31/2003 18:30:54 |
| Receipt Date: | 20030418 |
| Manifest ID: | 20116854 |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD028409019 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.075 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000265785 |
| | |
| Shipment Date: | 20170719 |
| Creation Date: | 5/21/2018 18:32:48 |
| Receipt Date: | 20170724 |
| Manifest ID: | 017734162JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | US ECOLOGY VERNON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1 |
| Waste Quantity: | 200 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170323 |
| Creation Date: | 5/25/2017 18:31:11 |
| Receipt Date: | 20170328 |
| Manifest ID: | 016857890JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | US ECOLOGY VERNON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170126 |
| Creation Date: | 3/27/2017 18:30:14 |
| Receipt Date: | 20170202 |
| Manifest ID: | 016859752JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | US ECOLOGY VERNON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAL000265785 |
| | |
| Shipment Date: | 20041206 |
| Creation Date: | 3/13/2007 18:30:42 |
| Receipt Date: | 20041215 |
| Manifest ID: | 23788950 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Shipment Date: | 20041206 |
| Creation Date: | 3/13/2007 18:30:42 |
| Receipt Date: | 20041215 |
| Manifest ID: | 23785140 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.84 |
| Waste Quantity: | 200 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20040921 |
| Creation Date: | 3/16/2007 18:31:12 |
| Receipt Date: | 20040922 |
| Manifest ID: | 23784839 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV -CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.42 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20040616 |
| Creation Date: | 11/1/2004 9:00:46 |
| Receipt Date: | 20040622 |
| Manifest ID: | 23314301 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.42 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040420 |
| Creation Date: | 11/1/2004 9:00:46 |
| Receipt Date: | 20040426 |
| Manifest ID: | 23313821 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 1.386 |
| Waste Quantity: | 330 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040213 |
| Creation Date: | 8/20/2004 9:31:41 |
| Receipt Date: | 20040218 |
| Manifest ID: | 22996295 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV -CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000265785 |
| Shipment Date: | 20140702 |
| Creation Date: | 8/26/2014 22:15:05 |
| Receipt Date: | 20140710 |
| Manifest ID: | 013088810JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD097030993 |
| Trans Name: | EVOQUA WATER TECHNOLOGIES LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 491 - Unspecified sludge waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2005 |
| Gen EPA ID: | CAL000265785 |
| Shipment Date: | 20051215 |
| Creation Date: | 3/16/2006 18:30:37 |
| Receipt Date: | 20051220 |
| Manifest ID: | 24808515 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20051006 |
| Creation Date: | 3/12/2006 18:31:42 |
| Receipt Date: | 20051012 |
| Manifest ID: | 24567792 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.126 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050517 |
| Creation Date: | 8/17/2005 18:31:07 |
| Receipt Date: | 20050519 |
| Manifest ID: | 24559800 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050517 |
| Creation Date: | 8/17/2005 18:31:07 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Receipt Date: | 20050519 |
| Manifest ID: | 24559800 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.1176 |
| Waste Quantity: | 28 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050428 |
| Creation Date: | 7/28/2005 18:30:54 |
| Receipt Date: | 20050503 |
| Manifest ID: | 24559631 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050428 |
| Creation Date: | 7/28/2005 18:30:54 |
| Receipt Date: | 20050503 |
| Manifest ID: | 24559631 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.21 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050310 |
| Creation Date: | 6/2/2005 18:30:59 |
| Receipt Date: | 20050315 |
| Manifest ID: | 24136933 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.777 |
| Waste Quantity: | 185 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050310 |
| Creation Date: | 6/2/2005 18:30:59 |
| Receipt Date: | 20050315 |
| Manifest ID: | 24136933 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL000265785 |
| | |
| Shipment Date: | 20060127 |
| Creation Date: | 5/6/2006 18:30:32 |
| Receipt Date: | 20060207 |
| Manifest ID: | 24809735 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.147 |
| Waste Quantity: | 35 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060105 |
| Creation Date: | 3/22/2006 18:32:45 |
| Receipt Date: | 20060111 |
| Manifest ID: | 24809799 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.063 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**JIFFY LUBE #1303 (Continued)** **S113124676**

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000265785 |
| | |
| Shipment Date: | 20130109 |
| Creation Date: | 3/19/2013 22:15:35 |
| Receipt Date: | 20130116 |
| Manifest ID: | 010875592JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.3753 |
| Waste Quantity: | 90 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130109 |
| Creation Date: | 3/19/2013 22:15:35 |
| Receipt Date: | 20130116 |
| Manifest ID: | 010875592JJK |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO / KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.2085 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | JIFFY LUBE #1303 |

**JIFFY LUBE #1303 (Continued)** **S113124676**

Address: 2025 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 418295
CERS ID: 10774366
CERS Description: Chemical Storage Facilities

Violations:

Site ID: 418295
Site Name: JIFFY LUBE #1303
Violation Date: 06-10-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/10/2014.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 418295
Site Name: JIFFY LUBE #1303
Violation Date: 06-10-2014
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/10/2014. Seven open, unlabeled five-gallon containers of waste oily sludge were observed stored in the basement. Label all containers of hazardous waste with the accumulation start date. Note: this violation was corrected during the inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 418295
Site Name: JIFFY LUBE #1303
Violation Date: 06-10-2014
Citation: 22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description: Failure to properly close hazardous waste containers when not in active use.
Violation Notes: Returned to compliance on 06/10/2014. Seven open, unlabeled five-gallon containers of waste oily sludge were observed stored in the basement. Maintain all containers of hazardous waste closed. Note: this violation was corrected during the inspection.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 418295
Site Name: JIFFY LUBE #1303
Violation Date: 03-20-2017
Citation: HSC 6.67 25270.4.5(a) - California Health and Safety Code, Chapter

**JIFFY LUBE #1303 (Continued)** **S113124676**

6.67, Section(s) 25270.4.5(a)
Violation Description: Failure to maintain a complete copy of the SPCC Plan at the facility if the facility is normally attended at least four hours per day, or at the nearest field office if the facility is not so attended.
Violation Notes: Returned to compliance on 07/05/2017. SPCC plan is maintained at corporate office, a copy is not available at facility. Provide copy of SPCC plan to facility to maintain on site.
Violation Division: Orange County Environmental Health
Violation Program: APSA
Violation Source: CERS

Site ID: 418295
Site Name: JIFFY LUBE #1303
Violation Date: 03-20-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 08/11/2017. Employees are reported to be trained. Training records are kept at corporate office. Provide copy of training records to site. Training records must be available for review for a minimum of three years.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Other/Unknown
Eval Date: 07-20-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training Plans
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for a routine hazardous waste inspection. Consent to enter and conduct inspection activities was provided by Ivan Gutierrez, Manager. Business ownership information was verified. Walked throughout the facility. Observed hazardous waste storage areas. Facility has on site two 500 gallon tanks of used oil, two 55 gallon drums of used antifreeze and two 55 gallon drums of waste oil filters. All containers were observed to be closed and properly labeled. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted near front of the store. A perimeter walk was conducted and the dumpster enclosure was observed. No signs of illegal dumping were noted.
Eval Division: Orange County Environmental Health
Eval Program: HW

**JIFFY LUBE #1303 (Continued)** **S113124676**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-08-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received phone call from John Zarabi, will e-mail documentation tomorrow
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-10-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a routine hazardous waste inspection. The manager, Eddie Gonzalez, granted me permission to inspect and accompanied during the inspection. The service area, basement, hazardous materials storage areas, perimeter of facility and trash dumpster were inspected. No hazardous waste observed in dumpster. The tank of waste oil and drums of waste coolant and waste oil filters were stored closed and labeled with required hazardous waste information. Manifests for hazardous waste disposal were on site, available for review. A hazardous waste emergency response plan was posted on the wall of the office.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-28-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and DECLINED on CERS: -Business Activities: Based on 03/20/2017 inspection your facility stores over 1,320 gallons of petroleum product on site. Indicate "YES" to "Does your facility own or operate aboveground tanks or containers with regulated storage greater than 1,320 gallons of petroleum products (new or used)?". -Chemical Inventory: Your inventory has been declined, please adjust: ALL MATERIALS: need storage pressure (ambient). For mixture & waste materials you must complete the Hazardous Components Chart including the name, percent by weight and CAS #s of all hazardous components. -Emergency Response & Training Plans: Add to the Business Emergency Plan the Local UPA/CUPA Phone number 714-433-6000. The following documents were received and ACCEPTED on CERS: -Business Owner/Operator -Facility Site Map
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for routine Spill Prevention Control and Countermeasure (SPCC) Plan inspection. Consent to enter and conduct inspection activities was provided by Ivan Gutierrez, Manager. SPCC

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| | plan was not available for review, violation cited. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-08-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Left VM, attempting to follow up on outstanding violations |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-11-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | violations noted during inspection yesterday were abated in EC today. Violations cited yesterday and corrected during inspection were corrected in EC. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-05-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: A copy of the SPCC Plan has been received and reviewed by this agency. Violation I151 issued on 03/20/2017 has been abated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 08-11-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: Training records have been received and reviewed by this agency. Violation I239 has been abated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-08-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received phone call from John Zarabi, will e-mail documentation tomorrow |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | APSA |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |

**JIFFY LUBE #1303 (Continued)** **S113124676**

Eval Date: 03-20-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Jiffy Lube #1303 2025 N Tustin Ave Santa Ana, CA 92705 INSPECTOR COMMENTS: On site for routine hazardous materials and Hazardous Materials Business Emergency Plan (HMBEP) inspection. Consent to enter and conduct inspection activities was provided by Ivan Gutierrez, Manager. Observed the facility and inspected hazardous materials storage. Disclosure thresholds for the HMBEP program are 55 gallons of a liquid, 500 pounds of a solid or 200 cubic feet of a compressed gas. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: -New Motor Oil: two 660 gallon split tanks -Used Motor Oil: two 500 gallon tanks -New Antifreeze: one 55 gallon drum -Used Antifreeze: two 55 gallon drums HMBEP is currently being maintained at corporate office. Provide copy of HMBEP to be maintained at facility. Annual employee safety training records were not available. A violation was issued for the records. The [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-08-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Left VM, attempting to follow up on outstanding violations
Eval Division: Orange County Environmental Health
Eval Program: APSA
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-20-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: updated waste stream page
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: During 03/20/2017 on site inspection training records were unavailable for review, violation I239 was cited. To date training records have not been received by this agency. Provide a copy of the most recent training record to this agency within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 418295
Facility Name: JIFFY LUBE #1303
Env Int Type Code: HMBP
Program ID: 10774366

**JIFFY LUBE #1303 (Continued)** **S113124676**

Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 33.763980
Longitude: -117.835680

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: SRTMT Auto Centers Inc
Entity Title: Not reported
Affiliation Address: 490 W Arrow Highway, Suite D
Affiliation City: San Dimas
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91773
Affiliation Phone: (539) 592-8484

Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611
Affiliation Phone: (714) 433-6406

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 2025 N Tustin Avenue
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92795
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: James Elkhoury
Entity Title: Area Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: SRTMT Auto Centers Inc
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (539) 959-2848

Affiliation Type Desc: Parent Corporation

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Entity Name: | Najjar Lube Centers |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | James Elkhoury, NLC. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | LUIS GOMEZ |
| Entity Title: | Not reported |
| Affiliation Address: | 2025 N Tustin Avenue |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92795 |
| Affiliation Phone: | Not reported |

HWTS:

| | |
|---|---|
| Name: | JJJZ, INC. DBA JIFFY LUBE #1303 |
| Address: | 2025 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057818 |
| EPA ID: | CAL000265785 |
| Inactive Date: | 06/30/2019 |
| Create Date: | 02/03/2003 |
| Last Act Date: | 09/26/2019 |
| Mailing Name: | Not reported |
| Mailing Address: | 32764 OCEAN VISTA CT |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | DANA POINT, CA 926290000 |
| Owner Name: | JJJZ INC DBA JIFFY LUBE 1303 |
| Owner Address: | 32764 OCEAN VISTA CT |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | DANA POINT, CA 926290000 |
| Contact Name: | JIM JAFARI |
| Contact Address: | 32764 OCEAN VISTA CT |
| Contact Address 2: | Not reported |
| City,State,Zip: | DANA POINT, CA 92629 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000265785 |
| Create Date: | 2003-02-03 13:18:34.810 |
| NAICS Code: | 811111 |
| NAICS Description: | General Automotive Repair |

**JIFFY LUBE #1303 (Continued)** **S113124676**

| | |
|---|---|
| Issued EPA ID Date: | 2003-02-03 13:18:34.76300 |
| Inactive Date: | 2019-06-30 00:00:00 |
| Facility Name: | JJJZ, INC. DBA JIFFY LUBE #1303 |
| Facility Address: | 2025 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927057818 |

| | |
|---|---|
| Name: | JIFFY LUBE #1303 |
| Address: | 2025 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92795 |
| EPA ID: | CAL000438271 |
| Inactive Date: | Not reported |
| Create Date: | 08/10/2018 |
| Last Act Date: | 07/03/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 490 W ARROW HWY STE D |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SAN DIMAS, CA 91773 |
| Owner Name: | SRTMT AUTO CENTERS INC |
| Owner Address: | 490 W ARROW HWY STE D |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SAN DIMAS, CA 91773 |
| Contact Name: | ELIAS NAJJAR |
| Contact Address: | 490 W ARROW HWY STE D |
| Contact Address 2: | Not reported |
| City,State,Zip: | SAN DIMAS, CA 91773 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000438271 |
| Create Date: | 2018-08-10 14:13:46.140 |
| NAICS Code: | 811198 |
| NAICS Description: | All Other Automotive Repair and Maintenance |
| Issued EPA ID Date: | 2018-08-10 14:13:46.12300 |
| Inactive Date: | Not reported |
| Facility Name: | JIFFY LUBE #1303 |
| Facility Address: | 2025 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92795 |

---

**L73** **JJJZ, INC. DBA JIFFY LUBE #1303** **RCRA NonGen / NLR** **1024805823**
**SSE** **2025 N TUSTIN AVE** **CAL000265785**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.219 mi.**
**1154 ft.** **Site 5 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20030203 |
| Handler Name: | JJJZ, INC. DBA JIFFY LUBE #1303 |
| Handler Address: | 2025 N TUSTIN AVE |

**JJJZ, INC. DBA JIFFY LUBE #1303 (Continued)** **1024805823**

| | |
|---|---|
| Handler City,State,Zip: | SANTA ANA, CA 92705-7818 |
| EPA ID: | CAL000265785 |
| Contact Name: | JIM JAFARI |
| Contact Address: | 433 W KATELLA AVE |
| Contact City,State,Zip: | ORANGE, CA 92867 |
| Contact Telephone: | 714-538-8663 |
| Contact Fax: | Not reported |
| Contact Email: | JJJZINC@GMAIL.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 433 W KATELLA AVE |
| Mailing City,State,Zip: | ORANGE, CA 92867-0000 |
| Owner Name: | JJJZ INC DBA JIFFY LUBE 1303 |
| Owner Type: | Other |
| Operator Name: | JIM JAFARI |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |

**JJJZ, INC. DBA JIFFY LUBE #1303 (Continued)** **1024805823**

| | |
|---|---|
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JJJZ INC DBA JIFFY LUBE 1303 |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 433 W KATELLA AVE |
| Owner/Operator City,State,Zip: | ORANGE, CA 92867-0000 |
| Owner/Operator Telephone: | 714-538-8663 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JIM JAFARI |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 433 W KATELLA AVE |
| Owner/Operator City,State,Zip: | ORANGE, CA 92867 |
| Owner/Operator Telephone: | 714-538-8663 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20030203 |
| Handler Name: | JJJZ, INC. DBA JIFFY LUBE #1303 |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |

**JJJZ, INC. DBA JIFFY LUBE #1303 (Continued)** **1024805823**

| | |
|---|---|
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**L74**
**SSE**
**1/8-1/4**
**0.219 mi.**
**1154 ft.**

**JIFFY LUBE #1303**
**2025 N TUSTIN AVE**
**SANTA ANA, CA 92795**

**RCRA NonGen / NLR** **1024869653**
**CAL000438271**

**Site 6 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20180810 |
| Handler Name: | JIFFY LUBE #1303 | |
| Handler Address: | | 2025 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92795 |
| EPA ID: | | CAL000438271 |
| Contact Name: | | ELIAS NAJJAR |
| Contact Address: | | 490 W ARROW HWY STE D |
| Contact City,State,Zip: | | SAN DIMAS, CA 91773 |
| Contact Telephone: | | 909-592-8484 |
| Contact Fax: | | 909-592-8482 |
| Contact Email: | | ELIAS.NAJJAR@NLCJL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 490 W ARROW HWY STE D |
| Mailing City,State,Zip: | | SAN DIMAS, CA 91773 |
| Owner Name: | | SRTMT AUTO CENTERS INC |
| Owner Type: | | Other |
| Operator Name: | | ELIAS NAJJAR |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |

**JIFFY LUBE #1303 (Continued)** **1024869653**

| | |
|---|---|
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180907 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SRTMT AUTO CENTERS INC |
| Legal Status: | Other |

**JIFFY LUBE #1303 (Continued)** **1024869653**

| | |
|---|---|
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 490 W ARROW HWY STE D |
| Owner/Operator City,State,Zip: | SAN DIMAS, CA 91773 |
| Owner/Operator Telephone: | 909-592-8484 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | ELIAS NAJJAR |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 490 W ARROW HWY STE D |
| Owner/Operator City,State,Zip: | SAN DIMAS, CA 91773 |
| Owner/Operator Telephone: | 909-592-8484 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20180810 |
| Handler Name: JIFFY LUBE #1303 | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811198 |
| NAICS Description: | ALL OTHER AUTOMOTIVE REPAIR AND MAINTENANCE |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**L75 SSE 1/8-1/4 0.222 mi. 1170 ft.** | **AUTOCARE EXPRESS INC 2015 N TUSTIN AVE STE A SANTA ANA, CA 92705** | **CERS HAZ WASTE HAZNET CERS HWTS** | **S113168141 N/A**

**Site 7 of 16 in cluster L**

**Relative: Lower**

**Actual: 185 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | AUTOCARE EXPRESS INC |
| Address: | 2015 N TUSTIN AVE STE A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 419162 |
| CERS ID: | 10728499 |
| CERS Description: | Hazardous Waste Generator |

HAZNET:

| | |
|---|---|
| Name: | AUTOCARE EXPRESS INC |
| Address: | 2015 N TUSTIN AVE STE A |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057823 |
| Contact: | JOSE HERNANDEZ |
| Telephone: | 7145439773 |
| Mailing Name: | Not reported |
| Mailing Address: | 2015 N TUSTIN AVE STE A |
| Year: | 2018 |
| Gepaid: | CAL000326149 |
| TSD EPA ID: | CAD097030993 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.10000 |

CERS:

| | |
|---|---|
| Name: | AUTOCARE EXPRESS INC |
| Address: | 2015 N TUSTIN AVE STE A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 419162 |
| CERS ID: | 10728499 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 419162 |
| Site Name: | AUTOCARE EXPRESS INC |
| Violation Date: | 02-06-2020 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 02/06/2020. The information on the hazardous waste label attached to the waste coolant tank was illegible. A new label was provided and attached to the wall above the waste coolant tank at the time of inspection. The violation was corrected. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

| | |
|---|---|
| Site ID: | 419162 |
| Site Name: | AUTOCARE EXPRESS INC |
| Violation Date: | 02-01-2017 |
| Citation: | HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507 |
| Violation Description: | Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 03/26/2017. Spoke with Jose Hernandez who said facility does not have an HMBEP. HMBEP must be maintained on site either in hard copy form or electronic. Please implement HMBEP and submit through the California Environmental Reporting System (CERS) within the next 30 days. CERS can be accessed at http://cers.calepa.ca.gov/. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 419162 |
| Site Name: | AUTOCARE EXPRESS INC |
| Violation Date: | 02-01-2017 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 02/21/2017. Labels missing required information. Fill in labels with all required information. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 419162 |
| Site Name: | AUTOCARE EXPRESS INC |
| Violation Date: | 02-06-2020 |
| Citation: | HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 08/04/2020. The Hazardous Materials Inventory in CERS is incomplete/inaccurate. Apply the following changes: (1) Used Lubricating Oils - There are two entries for used oil; combine into one entry and include the used oil tank and 55-gallon containers of used oil - Hazardous Materials Type: Select WASTE - Maximum Daily Amount: Update value to include used oil tank plus 55-gallon containers of used oil - Largest Container: Enter capacity of used oil tank - Days On Site: Enter 365 (2) Waste Ethylene Glycol (Coolant) - There are two entries for waste coolant; combine into one entry and include the waste coolant tank and any 55-gallon containers of waste coolant - Hazardous Materials Type: Select WASTE - Maximum Daily Amount: Update value to include waste coolant tank plus any 55-gallon containers waste coolant - Largest Container: Enter capacity of waste coolant tank - Days On Site: Enter 365 - Inventory Storage Information: Select TANK INSIDE BUILDING and DRUM (if drum |

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

[Truncated]
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 419162
Site Name: AUTOCARE EXPRESS INC
Violation Date: 02-01-2017
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/20/2017. Employees are reported to be trained on basic safety but records are not kept. Please hold safety meeting within the next 30 days that covers the HMBEP and submit copy of training records to this agency. Training is required within 6 months of hiring and annual thereafter. Training records must be kept on site for a minimum of three years.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 419162
Site Name: AUTOCARE EXPRESS INC
Violation Date: 02-06-2020
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 07/28/2020. Annual employee training has not been conducted per Jose Hernandez (Owner). All employees are required to be trained annually; new employees are required to be trained within 6 months. Provide employee training that covers safety procedures in the event of a release or threatened release of a hazardous material. Submit training records to this agency within 30 days with the following information documented: - Topic of training - Date of training - Employee name - Employee signature
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 419162
Site Name: AUTOCARE EXPRESS INC
Violation Date: 02-06-2020
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days.

Violation Notes: Returned to compliance on 08/04/2020. (1) No accumulation start date was observed on the waste coolant tank. Per Mr. Hernandez, accumulation start date could not be determined. After review of the hazardous waste manifest, it was determined that the last pick up occurred on 7/3/2019. (2) Observed one 55-gallon container of waste non-metal oil filters with accumulations start date of 8/2/2019. Properly dispose of the waste coolant and non-metal oil filters immediately and provide a copy of the hazardous waste manifest(s) to this agency within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: A Certificate of Return of Compliance (CRC) has been issued, correct violations listed in this report within 30 days. Return copy of CRC to this agency. On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Jose Hernandez, President. Business ownership information was verified. The current number of employees is 3. Walked throughout the facility. Observed hazardous waste storage areas. Containers were properly closed. Labels were missing required information, violation cited. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is posted near front of the store. A perimeter walk was conducted, no signs of illegal dumping were noted. EPA ID is currently showing as inactive through the Department of Toxic Substances Control (DTSC). Go to DTSC website and re-activate EPA ID immediately. http://www.dtsc.ca.gov/IDManifest/
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On site for routine hazardous materials and Hazardous Materials Business Emergency Plan (HMBEP) inspection. Consent to enter and inspect was given by Jose Hernandez. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: -Used Motor Oil, totaling 220 gallons -Waste Antifreeze, one 55 gallon container -Used Oil Filters, two 55 gallon containers Facility does not have HMBEP. A violation was issued. Annual employee safety training records were not available. A violation was issued for the records. The facility is responsible for identifying all hazardous materials, to include hazardous wastes, which are above disclosure thresholds. If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change.
Eval Division: Orange County Environmental Health

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. This facility is owned by Autocare Express Inc and currently has 3 employees. Walked throughout the facility and observed the hazardous waste storage area(s). This facility currently generates the following hazardous waste: - Used oil - Used oil filters (metal & non-metal) - Waste coolant - Parts washer fluid Hazardous waste manifests were available for review. The emergency response plan was available on site. Hazardous waste containers were closed. A copy of this inspection report will be sent to: Jose Hernandez, Owner <autocare.express@yahoo.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-22-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: A signed CRC has been received by this agency. Violation I400 Issued on 02/01/17 has been abated.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed and accepted CERS submission, violation I208 issued on 02/01/2017 has been abated.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violation cited on a previous inspection report. At the time of the routine inspection on 2/6/2020, it was determined that the waste coolant and waste non-metal oil filters exceeded the 180-day accumulation period. To date, this agency has not received hazardous waste manifests for the waste coolant and waste non-metal oil filters. Violation I053 remains outstanding. Corrective Action Required: Provide a copy of the most recent hazardous waste manifest for the waste coolant and waste non-metal oil filters immediately. A copy of this report will be emailed to: Jose Hernandez, Owner <autocare.express@yahoo.com>
Eval Division: Orange County Environmental Health

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-04-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violation cited on a previous inspection report. The business updated and resubmitted the Hazardous Materials Inventory in CERS. The inventory was reviewed and ACCEPTED by this agency. Violation I169 has been corrected. No violations remain under the Hazardous Materials Disclosure program. A copy of this report will be emailed to: Jose Hernandez, Owner <autocare.express@yahoo.com>
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-24-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed CERS submission Facility Information: Accepted Hazardous Materials Inventory: Not Accepted During 02/01/2017 on site inspection four 55 gallon drums of used motor oil totaling 220 gallons were observed, one 55 gallon drum of used antifreeze was observed and two 55 gallon drums of used oil filters were observed. Update inventory to reflect what was observed during onsite inspection. The max daily should be equal to or greater than the largest container size. Storage pressure and temperature for all materials is ambient. Please add the annual waste amount for the used oil filters. Add waste antifreeze to the materials inventory. If you have questions about your submission you may contact me at eminson@ochca.com or 714-290-7459. Emergency Response/Training: Accepted
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-04-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violation cited on a previous inspection report. The business provided copies of the most recent hazardous waste manifests for the waste coolant and waste non-metal oil filters. Manifests show 55-gallons of waste coolant removed by World Oil on 4/1/2020. One 55-gallon container of waste non-metal filters was removed by World Oil on 6/9/2020. Violation I053 has been corrected. No violations remain under the Hazardous Waste Generator program. A copy of this report will be emailed to: Jose Hernandez, Owner <autocare.express@yahoo.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-28-2020

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violations cited on a previous inspection report. The business provided employee training records dated 2/17/20. Violation I239 has been corrected. To date, the Hazardous Materials Inventory in CERS remains inaccurate/incomplete. Violation I169 remains outstanding. Corrective Action Required: Please refer to the regulator comments in CERS for necessary corrections. Update and resubmit the Hazardous Materials Inventory via CERS immediately. A copy of this report will be emailed to: Jose Hernandez, Owner <autocare.express@yahoo.com>
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine hazardous materials and business emergency plan inspection. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Used oil - Waste coolant The facility is responsible for identifying all hazardous materials, and to include hazardous wastes, which are above disclosure thresholds (55 gallons of a liquid, 500 pounds of a solid, 200 cubic feet of a compressed gas). If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Environmental Reporting System (CERS) located at http://cers.calepa.ca.gov/. Please note: The business is required to review the CERS electronic submittal annually and resubmit between January 1st and March 1st of each year. [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-22-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: INSPECTOR COMMENTS: Training records received by this agency. Violation I239 issued on 02/01/17 has been abated.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: Orange County Env Health
Entity Title: Not reported
Affiliation Address: 1241 East Dyer RoadSuite 120
Affiliation City: Santa Ana
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92705-5611

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

| | |
|---|---|
| Affiliation Phone: | (714) 433-6406 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | JOSE HERNANDEZ |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | JOSE J. HERNANDEZ |
| Entity Title: | Not reported |
| Affiliation Address: | 2015 N TUSTIN AVE STE A |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | JOSE HERNANDEZ |
| Entity Title: | OWNER |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | JOSE J. HERNANDEZ |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 543-9773 |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | AUTOCARE EXPRESS INC |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2015 N TUSTIN AVE STE A |
| Affiliation City: | SANTA ANA |

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

| | |
|---|---|
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | T&N TUSTIN INVESTMENTS C/O KIDDER MATHEWS |
| Entity Title: | Not reported |
| Affiliation Address: | 5 PARK PLAZA SUITE 1700 |
| Affiliation City: | IRVINE |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92614 |
| Affiliation Phone: | (949) 557-5056 |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | AUTOCARE EXPRESS INC |
| Entity Title: | Not reported |
| Affiliation Address: | 2105 N TUSTIN AVE STE A |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 543-9773 |

HWTS:

| | |
|---|---|
| Name: | AUTOCARE EXPRESS INC |
| Address: | 2015 N TUSTIN AVE STE A |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057823 |
| EPA ID: | CAL000326149 |
| Inactive Date: | Not reported |
| Create Date: | 10/26/2007 |
| Last Act Date: | 08/13/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 2015 N TUSTIN AVE STE A |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927057823 |
| Owner Name: | AUTOCARE EXPRESS INC. |
| Owner Address: | 1921 SHERRY LN APT 88 |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927057621 |
| Contact Name: | JOSE HERNANDEZ |
| Contact Address: | 1921 SHERRY LN APT 88 |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000326149 |
| Create Date: | 2007-10-26 09:16:49.663 |
| NAICS Code: | 811111 |
| NAICS Description: | General Automotive Repair |
| Issued EPA ID Date: | 2007-10-26 09:16:49.61700 |
| Inactive Date: | Not reported |
| Facility Name: | AUTOCARE EXPRESS INC |
| Facility Address: | 2015 N TUSTIN AVE STE A |

**AUTOCARE EXPRESS INC (Continued)** **S113168141**

| | |
|---|---|
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927057823 |

---

**L76** **BEACON BAY AUTO WASH** **CA FID UST** **S101589223**
**SSE** **2015 N TUSTIN** **N/A**
**1/8-1/4** **SANTA ANA, CA 92701**
**0.222 mi.**
**1170 ft.** **Site 8 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

CA FID UST:

| | |
|---|---|
| Facility ID: | 30003974 |
| Regulated By: | UTNKI |
| Regulated ID: | 00043009 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7148366111 |
| Mail To: | Not reported |
| Mailing Address: | 260 NEWPORT CENTER DR |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | SANTA ANA 92701 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Inactive |

---

**L77** **JIFFY LUBE** **RCRA-SQG** **1000594456**
**SSE** **2015 N TUSTIN AVE** **HAZNET** **CAD983582867**
**1/8-1/4** **SANTA ANA, CA 92701** **HWTS**
**0.222 mi.**
**1170 ft.** **Site 9 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA-SQG:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 19910528 |
| Handler Name: | JIFFY LUBE | |
| Handler Address: | | 2015 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92701 |
| EPA ID: | | CAD983582867 |
| Contact Name: | | LARRY DOMNITZ |
| Contact Address: | | 2015 N TUSTIN AVE |
| Contact City,State,Zip: | | SANTA ANA, CA 92701 |
| Contact Telephone: | | 714-472-9114 |
| Contact Fax: | | Not reported |
| Contact Email: | | Not reported |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Other |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | CA |
| State District: | 4 |
| Mailing Address: | 23436 MADERO STE SECOND HUNDRE |
| Mailing City,State,Zip: | MISSION VIEJO, CA 92691 |
| Owner Name: | CARDINAL DEV CO |
| Owner Type: | Private |
| Operator Name: | NOT REQUIRED |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Handler Date of Last Change: | 20020627 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | CARDINAL DEV CO |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | NOT REQUIRED |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | NOT REQUIRED |
| Owner/Operator City,State,Zip: | NOT REQUIRED, ME 99999 |
| Owner/Operator Telephone: | 415-555-1212 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19910528 |
| Handler Name: JIFFY LUBE | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | CA |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Codes: | No NAICS Codes Found |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

**JIFFY LUBE (Continued)** **1000594456**

Evaluation Action Summary:
Evaluations: No Evaluations Found

HAZNET:
Name: JIFFY LUBE
Address: 2015 N TUSTIN AVE
Address 2: Not reported
City,State,Zip: SANTA ANA, CA 927010000
Contact: UNDELIVERABLE PER SURVEY
Telephone: 4155551212
Mailing Name: Not reported
Mailing Address: 23436 MADERO STE 200

Year: 1995
Gepaid: CAD983582867
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.836

Year: 1995
Gepaid: CAD983582867
TSD EPA ID: CAD099452708
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 0.924

Year: 1994
Gepaid: CAD983582867
TSD EPA ID: CAD981427669
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 0.7297

Year: 1994
Gepaid: CAD983582867
TSD EPA ID: CAD099452708
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: R01 - Recycler
Tons: 7.266

Year: 1994
Gepaid: CAD983582867
TSD EPA ID: Not reported
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: -
Tons: 0.924

Year: 1994
Gepaid: CAD983582867
TSD EPA ID: CAD099452708
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 3.0441

**JIFFY LUBE (Continued)** **1000594456**

Additional Info:

| | |
|---|---|
| Year: | 1995 |
| Gen EPA ID: | CAD983582867 |
| | |
| Shipment Date: | 19950405 |
| Creation Date: | 10/23/1995 0:00:00 |
| Receipt Date: | 19950405 |
| Manifest ID: | 95282004 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19950227 |
| Creation Date: | 10/23/1995 0:00:00 |
| Receipt Date: | 19950228 |
| Manifest ID: | 95284161 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.836 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1994 |
| Gen EPA ID: | CAD983582867 |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Shipment Date: | 19941215 |
| Creation Date: | 10/19/1995 0:00:00 |
| Receipt Date: | 19941216 |
| Manifest ID: | 93520932 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19941117 |
| Creation Date: | 3/28/1996 0:00:00 |
| Receipt Date: | 19941118 |
| Manifest ID: | 93520739 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19941006 |
| Creation Date: | 10/19/1995 0:00:00 |
| Receipt Date: | 19941007 |
| Manifest ID: | 93520455 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940826 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940826 |
| Manifest ID: | 93521800 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.693 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940805 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940805 |
| Manifest ID: | 93521633 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.798 |
| Waste Quantity: | 190 |
| Quantity Unit: | G |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940722 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940722 |
| Manifest ID: | 93190318 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940702 |
| Creation Date: | 10/10/1995 0:00:00 |
| Receipt Date: | Not reported |
| Manifest ID: | 93190203 |
| Trans EPA ID: | Not reported |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | Not reported |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.924 |
| Waste Quantity: | 220 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940618 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940620 |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Manifest ID: | 93519508 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.693 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940604 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940604 |
| Manifest ID: | 93519343 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD981427669 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.7297 |
| Waste Quantity: | 175 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19940519 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940519 |
| Manifest ID: | 93519240 |
| Trans EPA ID: | CAD981427669 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |

**JIFFY LUBE (Continued)** **1000594456**

| | |
|---|---|
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.4587 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | JIFFY LUBE |
| Address: | 2015 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAD983582867 |
| Inactive Date: | 01/01/1995 |
| Create Date: | 05/28/1991 |
| Last Act Date: | 08/10/2004 |
| Mailing Name: | Not reported |
| Mailing Address: | 23436 MADERO STE 200 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | MISSION VIEJO, CA 926910000 |
| Owner Name: | CARDINAL DEV CO |
| Owner Address: | NOT REQUIRED |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | NOT REQUIRED, ME 999990000 |
| Contact Name: | UNDELIVERABLE PER SURVEY |
| Contact Address: | 12/94 NW |
| Contact Address 2: | Not reported |
| City,State,Zip: | NOT REQUIRED, ME 999990000 |

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**L78** **AUTOCARE EXPRESS INC** **RCRA NonGen / NLR** **1024818566**
**SSE** **2015 N TUSTIN AVE STE A** **CAL000326149**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.222 mi.**
**1170 ft.** **Site 10 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20071026 |
| Handler Name: | AUTOCARE EXPRESS INC | |
| Handler Address: | | 2015 N TUSTIN AVE STE A |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-7823 |
| EPA ID: | | CAL000326149 |
| Contact Name: | | JOSE HERNANDEZ |
| Contact Address: | | 1921 SHERRY LN APT 88 |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 714-543-9773 |
| Contact Fax: | | 714-543-9772 |
| Contact Email: | | AUTOCARE.EXPRESS@YAHOO.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |

**AUTOCARE EXPRESS INC (Continued)** **1024818566**

| | |
|---|---|
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2015 N TUSTIN AVE STE A |
| Mailing City,State,Zip: | SANTA ANA, CA 92705-7823 |
| Owner Name: | AUTOCARE EXPRESS INC. |
| Owner Type: | Other |
| Operator Name: | JOSE HERNANDEZ |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |

**AUTOCARE EXPRESS INC (Continued)** **1024818566**

| | |
|---|---|
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JOSE HERNANDEZ |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1921 SHERRY LN APT 88 |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-543-9773 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | AUTOCARE EXPRESS INC. |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1921 SHERRY LN APT 88 |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7621 |
| Owner/Operator Telephone: | 714-543-9773 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20071026 |
| Handler Name: AUTOCARE EXPRESS INC | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

**AUTOCARE EXPRESS INC (Continued)** **1024818566**

Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**L79**
**SSE**
**1/8-1/4**
**0.222 mi.**
**1170 ft.**

**BRAKE EXPRESS**
**2015 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 11 of 16 in cluster L**

**SWEEPS UST** **U001578120**
**HIST UST** **N/A**
**HAZNET**
**HWTS**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2015 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 43009 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-043009-000001 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 5 |

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2015 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 43009 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-043009-000002 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2015 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Comp Number: | 43009 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-043009-000003 |
| Tank Status: | Not reported |
| Capacity: | 7500 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2015 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 43009 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-043009-000004 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | BEACON BAY AUTO WASH |
| Address: | 2015 N TUSTIN AVE |
| City: | SANTA ANA |
| Status: | Not reported |
| Comp Number: | 43009 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-043009-000005 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

HIST UST:

| | |
|---|---|
| Name: | SIERRA AUTO WASH |
| Address: | 2015 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| File Number: | 0002E572 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002E572.pdf |
| Region: | STATE |
| Facility ID: | 00000043009 |
| Facility Type: | Gas Station |
| Other Type: | RETAIL GAS CAR WASH |
| Contact Name: | Not reported |
| Telephone: | 7148366111 |
| Owner Name: | BEACON BAY ENTERPRISES, INC. |
| Owner Address: | 260 NEWPORT CENTER DRIVE |
| Owner City,St,Zip: | NEWPORT BEACH, CA 92660 |
| Total Tanks: | 0005 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1967 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 002 |
| Container Num: | #2 |
| Year Installed: | 1967 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 003 |
| Container Num: | #3 |
| Year Installed: | 1967 |
| Tank Capacity: | 00007500 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 004 |
| Container Num: | 4 |
| Year Installed: | 1967 |
| Tank Capacity: | 00010000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor, 10 |
| | |
| Tank Num: | 005 |
| Container Num: | 5 |
| Year Installed: | 1967 |
| Tank Capacity: | 00010000 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Tank Used for: | PRODUCT |
| Type of Fuel: | UNLEADED |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Stock Inventor, 10 |

Click here for Geo Tracker PDF:

HAZNET:

| | |
|---|---|
| Name: | BRAKE EXPRESS |
| Address: | 2015 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057823 |
| Contact: | TOM EWALD MANAGER |
| Telephone: | 7145583360 |
| Mailing Name: | Not reported |
| Mailing Address: | 2015 N TUSTIN AVE STE A |
| | |
| Year: | 2008 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | CAD099452708 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.63 |
| | |
| Year: | 2007 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | - |
| Tons: | 0.462 |
| | |
| Year: | 2007 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | CAD099452708 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.273 |
| | |
| Year: | 2006 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | - |
| Tons: | 0.231 |
| | |
| Year: | 2006 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.924 |
| | |
| Year: | 2005 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.462 |
| | |
| Year: | 2005 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | - |
| Disposal Method: | R01 - Recycler |
| Tons: | Not reported |
| | |
| Year: | 2005 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | - |
| Tons: | 0.693 |
| | |
| Year: | 2004 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | - |
| Tons: | 0.924 |
| | |
| Year: | 2004 |
| Gepaid: | CAL922943374 |
| TSD EPA ID: | NVR000037432 |
| CA Waste Code: | 135 - Unspecified aqueous solution |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.462 |

Click this hyperlink while viewing on your computer to access
10 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2006 |
| Gen EPA ID: | CAL922943374 |
| | |
| Shipment Date: | 20061109 |
| Creation Date: | 3/30/2007 13:33:47 |
| Receipt Date: | 20061116 |
| Manifest ID: | 000412440JJK |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060808 |
| Creation Date: | 9/27/2006 18:35:31 |
| Receipt Date: | 20060816 |
| Manifest ID: | 24927722 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060307 |
| Creation Date: | 7/5/2006 12:02:53 |
| Receipt Date: | 20060308 |
| Manifest ID: | 24809842 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20060118 |
| Creation Date: | 6/22/2006 18:32:03 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Receipt Date: | 20060119 |
| Manifest ID: | 24809614 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.462 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2003 |
| Gen EPA ID: | CAL922943374 |
| | |
| Shipment Date: | 20031107 |
| Creation Date: | 8/5/2004 10:08:03 |
| Receipt Date: | 20031111 |
| Manifest ID: | 22905398 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20030723 |
| Creation Date: | 7/28/2004 10:48:03 |
| Receipt Date: | 20030806 |
| Manifest ID: | 22564348 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20030613 |
| Creation Date: | 7/20/2004 10:01:52 |
| Receipt Date: | 20030616 |
| Manifest ID: | 22558920 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20030404 |
| Creation Date: | 6/21/2003 18:30:56 |
| Receipt Date: | 20030411 |
| Manifest ID: | 22557585 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | NVR000001925 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL922943374 |
| Shipment Date: | 20080122 |
| Creation Date: | 3/12/2008 18:30:30 |
| Receipt Date: | 20080123 |
| Manifest ID: | 003462523JJK |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | INDUSTRIAL SERVICE OIL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.63 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAL922943374 |
| Shipment Date: | 20001128 |
| Creation Date: | 1/24/2001 0:00:00 |
| Receipt Date: | 20001130 |
| Manifest ID: | 20860228 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20001128 |
| Creation Date: | 1/24/2001 0:00:00 |
| Receipt Date: | 20001130 |
| Manifest ID: | 20860229 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAD099452708 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20000907 |
| Creation Date: | 10/23/2000 0:00:00 |
| Receipt Date: | 20000907 |
| Manifest ID: | 99697540 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NRV000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | NRV000001925 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

Additional Info:

| | |
|---|---|
| Year: | 2002 |
| Gen EPA ID: | CAL922943374 |
| | |
| Shipment Date: | 20021220 |
| Creation Date: | 3/30/2003 18:31:13 |
| Receipt Date: | 20030117 |
| Manifest ID: | 21986753 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20021023 |
| Creation Date: | 2/10/2003 18:31:16 |
| Receipt Date: | 20021030 |
| Manifest ID: | 21986021 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20020827 |
| Creation Date: | 3/14/2003 18:31:30 |
| Receipt Date: | 20020828 |
| Manifest ID: | 21533129 |
| Trans EPA ID: | CAL000253361 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.168 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020827 |
| Creation Date: | 3/14/2003 18:31:30 |
| Receipt Date: | 20020828 |
| Manifest ID: | 21533128 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020705 |
| Creation Date: | 3/13/2003 18:31:17 |
| Receipt Date: | 20020710 |
| Manifest ID: | 21526591 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020409 |
| Creation Date: | 7/10/2002 18:30:49 |
| Receipt Date: | 20020411 |
| Manifest ID: | 21524548 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20020409 |
| Creation Date: | 7/10/2002 18:30:49 |
| Receipt Date: | 20020411 |
| Manifest ID: | 21524548 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Shipment Date: | 20020204 |
| Creation Date: | 7/25/2002 18:31:24 |
| Receipt Date: | Not reported |
| Manifest ID: | 21158136 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL922943374 |

| | |
|---|---|
| Shipment Date: | 20011203 |
| Creation Date: | 1/16/2002 0:00:00 |
| Receipt Date: | 20011205 |
| Manifest ID: | 21157489 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | NVR000001925 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010822 |
| Creation Date: | 10/23/2001 0:00:00 |
| Receipt Date: | 20010830 |
| Manifest ID: | 21155265 |
| Trans EPA ID: | CAD008244337 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | NVR000001925 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010625 |
| Creation Date: | 8/24/2001 0:00:00 |
| Receipt Date: | 20010711 |
| Manifest ID: | 20853388 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000001925 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | NVR000001925 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20010314 |
| Creation Date: | 4/30/2001 0:00:00 |
| Receipt Date: | 20010316 |
| Manifest ID: | 20837058 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.21 |
| Waste Quantity: | 50 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL922943374 |
| | |
| Shipment Date: | 20070926 |
| Creation Date: | 1/9/2008 18:30:21 |
| Receipt Date: | 20071005 |
| Manifest ID: | 002367031JJK |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | INDUSTRIAL SERVICE OIL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.042 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070712 |
| Creation Date: | 11/5/2007 18:30:43 |
| Receipt Date: | 20070719 |
| Manifest ID: | 002365918JJK |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD099452708 |
| Trans Name: | INDUSTRIAL SERVICE OIL |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20070330 |
| Creation Date: | 8/23/2007 18:30:34 |
| Receipt Date: | 20070404 |
| Manifest ID: | 000412929JJK |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.462 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAL922943374 |

| | |
|---|---|
| Shipment Date: | 20041209 |
| Creation Date: | 3/13/2007 18:30:42 |
| Receipt Date: | 20041215 |
| Manifest ID: | 23784947 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040929 |
| Creation Date: | 12/31/2004 18:30:54 |
| Receipt Date: | 20041021 |
| Manifest ID: | 23766693 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040806 |
| Creation Date: | 1/4/2005 18:33:27 |
| Receipt Date: | 20040810 |
| Manifest ID: | 23635811 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV -CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.462 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20040322 |
| Creation Date: | 8/23/2004 8:48:57 |
| Receipt Date: | 20040324 |
| Manifest ID: | 23312384 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV -CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20040204 |
| Creation Date: | 8/20/2004 9:31:41 |
| Receipt Date: | 20040218 |
| Manifest ID: | 22996388 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV -CON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2005 |
| Gen EPA ID: | CAL922943374 |

| | |
|---|---|
| Shipment Date: | 20051025 |
| Creation Date: | 5/24/2006 18:31:13 |
| Receipt Date: | 20051027 |
| Manifest ID: | 24567648 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050823 |
| Creation Date: | 4/13/2006 18:47:49 |
| Receipt Date: | 20050901 |
| Manifest ID: | 24566693 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20050311 |
| Creation Date: | 6/2/2005 18:30:59 |
| Receipt Date: | 20050315 |
| Manifest ID: | 24136787 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 135 - Unspecified aqueous solution |
| RCRA Code: | EXEM |
| Meth Code: | - Not reported |
| Quantity Tons: | 0.693 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**BRAKE EXPRESS (Continued)** **U001578120**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20050311 |
| Creation Date: | 6/2/2005 18:30:59 |
| Receipt Date: | 20050315 |
| Manifest ID: | 24136787 |
| Trans EPA ID: | CAL000253361 |
| Trans Name: | ALL PHASE ENVIRONMENTAL |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | NONE |
| TSDF EPA ID: | NVR000037432 |
| Trans Name: | EV-CON |
| TSDF Alt EPA ID: | NVR000037432 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | - Not reported |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | Not reported |
| Waste Quantity: | Not reported |
| Quantity Unit: | Not reported |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | BRAKE EXPRESS |
| Address: | 2015 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057823 |
| EPA ID: | CAL922943374 |
| Inactive Date: | 06/30/2002 |
| Create Date: | 10/20/1992 |
| Last Act Date: | 10/14/2013 |
| Mailing Name: | Not reported |
| Mailing Address: | 2015 N TUSTIN AVE STE A |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927057823 |
| Owner Name: | BRAKE EXPRESS |
| Owner Address: | 2015 N TUSTIN AVE STE A |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927057823 |
| Contact Name: | TOM EWALD MANAGER |
| Contact Address: | 2015 N TUSTIN AVE STE A |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927057823 |

**80 ENE 1/8-1/4 0.222 mi. 1171 ft.** | **MICHELLE BELACIC 2244 FRANZEN AVE SANTA ANA, CA 92705** | **RCRA NonGen / NLR** | **1026161369 CAC003061350**

**Relative: Higher**

**Actual: 197 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20200325 |
| Handler Name: | MICHELLE BELACIC | |
| Handler Address: | | 2244 FRANZEN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC003061350 |
| Contact Name: | | MICHELLE BELACIC |
| Contact Address: | | 2244 FRANZEN AVE |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 310-531-4044 |
| Contact Fax: | | Not reported |
| Contact Email: | | SHAY@JCENVIRONMENTALINC.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2244 FRANZEN AVE |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705 |
| Owner Name: | | MICHELLE BELACIC |
| Owner Type: | | Other |
| Operator Name: | | MICHELLE BELACIC |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | No |
| Universal Waste Destination Facility: | | No |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**MICHELLE BELACIC (Continued)** **1026161369**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20200408 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MICHELLE BELACIC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2244 FRANZEN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 310-531-4044 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | MICHELLE BELACIC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2244 FRANZEN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 310-531-4044 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**MICHELLE BELACIC (Continued)** **1026161369**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20200325 |
| Handler Name: | MICHELLE BELACIC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**J81** **SCOTT ASHLOCK** **RCRA NonGen / NLR** **1026819000**
**WSW** **1902 E. AVALON AVENUE** **CAC003131808**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.228 mi.**
**1204 ft.** **Site 3 of 3 in cluster J**

**Relative:**
**Lower**

**Actual:**
**186 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20210729 |
| Handler Name: | SCOTT ASHLOCK |
| Handler Address: | 1902 E. AVALON AVENUE |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAC003131808 |
| Contact Name: | SCOTT ASHLOCK |
| Contact Address: | 1902 E. AVALON AVENUE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-744-4432 |
| Contact Fax: | Not reported |
| Contact Email: | KARLA@SUPERIORENV.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Not reported |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1902 E. AVALON AVENUE |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | SCOTT ASHLOCK |

**SCOTT ASHLOCK (Continued)** **1026819000**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | SCOTT ASHLOCK |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20210730 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**SCOTT ASHLOCK (Continued)** **1026819000**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | SCOTT ASHLOCK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1902 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-744-4432 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SCOTT ASHLOCK |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1902 E. AVALON AVENUE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-744-4432 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20210729 |
| Handler Name: SCOTT ASHLOCK | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | No |
| Electronic Manifest Broker: | No |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**82 North 1/8-1/4 0.244 mi. 1286 ft.** | **JEFF LEDON**
**2530 N TUSTIN #119 UNIT D**
**SANTA ANA, CA 92705** | **RCRA NonGen / NLR** | **1024760522**
**CAC002980377**

**Relative: Higher**
**Actual: 202 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20180914 |
| Handler Name: | JEFF LEDON | |
| Handler Address: | | 2530 N TUSTIN #119 UNIT D |
| Handler City,State,Zip: | | SANTA ANA, CA 92705 |
| EPA ID: | | CAC002980377 |
| Contact Name: | | JEFF LEDON |
| Contact Address: | | 2530 N TUSTIN #119 UNIT D |
| Contact City,State,Zip: | | SANTA ANA, CA 92705 |
| Contact Telephone: | | 714-737-7759 |
| Contact Fax: | | Not reported |
| Contact Email: | | JOE@SIRRIS.BIZ |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2530 N TUSTIN #119 UNIT D |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705 |
| Owner Name: | | JEFF LEDON |
| Owner Type: | | Other |
| Operator Name: | | JEFF LEDON |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**JEFF LEDON (Continued)** **1024760522**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20181001 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JEFF LEDON |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2530 N TUSTIN #119 UNIT D |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-737-7759 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | JEFF LEDON |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2530 N TUSTIN #119 UNIT D |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-737-7759 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**JEFF LEDON (Continued)** **1024760522**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20180914 |
| Handler Name: JEFF LEDON | |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 56299 |
| NAICS Description: | ALL OTHER WASTE MANAGEMENT SERVICES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**L83** **FIRESTONE COMPLETE AUTO CARE # 2277** **RCRA NonGen / NLR** **1024830558**
**SSE** **2005 N TUSTIN AVE STE A** **CAL000365689**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.245 mi.**
**1293 ft.** **Site 12 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 20110714 |
| Handler Name: | FIRESTONE COMPLETE AUTO CARE # 2277 |
| Handler Address: | 2005 N TUSTIN AVE STE A |
| Handler City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL000365689 |
| Contact Name: | BRIDGESTONE RETAIL OPERATIONS, LLC |
| Contact Address: | 333 EAST LAKE STREET |
| Contact City,State,Zip: | BLOOMINGDALE, IL 60108 |
| Contact Telephone: | 615-937-7515 |
| Contact Fax: | 615-493-3310 |
| Contact Email: | ENVGEN@BFRC.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 333 EAST LAKE STREET |
| Mailing City,State,Zip: | BLOOMINGDALE, IL 60108-0000 |
| Owner Name: | BRIDGESTONE RETAIL OPERATIONS, LLC |

**FIRESTONE COMPLETE AUTO CARE # 2277 (Continued)** **1024830558**

| | |
|---|---|
| Owner Type: | Other |
| Operator Name: | BRIDGESTONE RETAIL OPERATIONS, LLC |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180906 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |

**FIRESTONE COMPLETE AUTO CARE # 2277 (Continued)** **1024830558**

Sub-Part P Indicator: No

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | BRIDGESTONE RETAIL OPERATIONS, LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 333 EAST LAKE STREET |
| Owner/Operator City,State,Zip: | BLOOMINGDALE, IL 60108-0000 |
| Owner/Operator Telephone: | 615-937-7515 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BRIDGESTONE RETAIL OPERATIONS, LLC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 333 EAST LAKE STREET |
| Owner/Operator City,State,Zip: | BLOOMINGDALE, IL 60108 |
| Owner/Operator Telephone: | 615-937-7515 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 20110714 |
| Handler Name: | FIRESTONE COMPLETE AUTO CARE # 2277 |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 45299 |
| NAICS Description: | ALL OTHER GENERAL MERCHANDISE STORES |

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

**L84 SSE 1/8-1/4 0.245 mi. 1293 ft.** | **MO'S GARAGE**
**2005 N TUSTIN AVE**
**SANTA ANA, CA 92705**

**Site 13 of 16 in cluster L**

**RCRA NonGen / NLR** | **1025868331**
**CAL000361247**

**Relative: Lower**

**Actual: 185 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 20110225 |
| Handler Name: | MO'S GARAGE | |
| Handler Address: | | 2005 N TUSTIN AVE |
| Handler City,State,Zip: | | SANTA ANA, CA 92705-7801 |
| EPA ID: | | CAL000361247 |
| Contact Name: | | TEENA ALIHASSAN |
| Contact Address: | | 2005 N TUSTIN AVE STE C |
| Contact City,State,Zip: | | SANTA ANA, CA 92705-7801 |
| Contact Telephone: | | 714-834-0256 |
| Contact Fax: | | 714-834-0254 |
| Contact Email: | | MOSGARAGECA@GMAIL.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 2005 N TUSTIN AVE STE C |
| Mailing City,State,Zip: | | SANTA ANA, CA 92705-0000 |
| Owner Name: | | MUHAMMAD ALIHASSAN |
| Owner Type: | | Other |
| Operator Name: | | TEENA ALIHASSAN |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |
| Smelting Melting and Refining Furnace Exemption: | | No |
| Underground Injection Control: | | No |
| Off-Site Waste Receipt: | | No |
| Universal Waste Indicator: | | Yes |
| Universal Waste Destination Facility: | | Yes |
| Federal Universal Waste: | | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | | Not reported |
| Active Site State-Reg Handler: | | --- |
| Federal Facility Indicator: | | Not reported |
| Hazardous Secondary Material Indicator: | | N |
| Sub-Part K Indicator: | | Not reported |
| Commercial TSD Indicator: | | No |
| Treatment Storage and Disposal Type: | | Not reported |
| 2018 GPRA Permit Baseline: | | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | | Not on the Baseline |
| Permit Renewals Workload Universe: | | Not reported |

**MO'S GARAGE (Continued)** **1025868331**

| | |
|---|---|
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20190729 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | TEENA ALIHASSAN |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2005 N TUSTIN AVE STE C |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7801 |
| Owner/Operator Telephone: | 714-834-0256 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | MUHAMMAD ALIHASSAN |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2213 N PONDEROSA ST |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7900 |
| Owner/Operator Telephone: | 714-322-9407 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

**MO'S GARAGE (Continued)** **1025868331**

Historic Generators:

| | |
|---|---|
| Receive Date: | 20110225 |
| Handler Name: | MO'S GARAGE |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | Not reported |
| Recognized Trader Exporter: | Not reported |
| Spent Lead Acid Battery Importer: | Not reported |
| Spent Lead Acid Battery Exporter: | Not reported |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**L85** **MOTRA TRANSMISSIONS** **RCRA-SQG** **1000595715**
**SSE** **2005 N TUSTIN AVE STE C** **FINDS** **CAD983596685**
**1/8-1/4** **SANTA ANA, CA 92701** **ECHO**
**0.245 mi.** **HAZNET**
**1293 ft.** **Site 14 of 16 in cluster L** **HWTS**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA-SQG:

| | |
|---|---|
| Date Form Received by Agency: | 19921201 |
| Handler Name: | MOTRA TRANSMISSIONS |
| Handler Address: | 2005 N TUSTIN AVE STE C |
| Handler City,State,Zip: | SANTA ANA, CA 92701 |
| EPA ID: | CAD983596685 |
| Contact Name: | THOMAS HOCKERSMITH |
| Contact Address: | 2005 N TUSTIN AVE STE C |
| Contact City,State,Zip: | SANTA ANA, CA 92701 |
| Contact Telephone: | 714-568-5454 |
| Contact Fax: | Not reported |
| Contact Email: | Not reported |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Private |
| Federal Waste Generator Description: | Small Quantity Generator |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | CA |
| State District: | 4R |
| Mailing Address: | N TUSTIN AVE STE C |
| Mailing City,State,Zip: | SANTA ANA, CA 92701 |
| Owner Name: | MOTRA TRANSMISSIONS |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

| | |
|---|---|
| Owner Type: | Private |
| Operator Name: | NOT REQUIRED |
| Operator Type: | Private |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | NN |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20000915 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | Not reported |
| Manifest Broker: | Not reported |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: MOTRA TRANSMISSIONS
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2005 N TUSTIN AVE STE C
Owner/Operator City,State,Zip: SANTA ANA, CA 92701
Owner/Operator Telephone: 714-568-5454
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19921201
Handler Name: MOTRA TRANSMISSIONS
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002854279

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1000595715 |
| Registry ID: | 110002854279 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110002854279 |
| Name: | MOTRA TRANSMISSIONS |
| Address: | 2005 N TUSTIN AVE STE C |
| City,State,Zip: | SANTA ANA, CA 92701 |

HAZNET:

| | |
|---|---|
| Name: | MOTRA TRANSMISSIONS |
| Address: | 2005 N TUSTIN AVE STE C |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact: | INACT PER SURVEY 3/95 CM |
| Telephone: | 4155551212 |
| Mailing Name: | Not reported |
| Mailing Address: | 2005 N TUSTIN AVE STE C |
| | |
| Year: | 1999 |
| Gepaid: | CAD983596685 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | R01 - Recycler |
| Tons: | 1.0424 |
| | |
| Year: | 1998 |
| Gepaid: | CAD983596685 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | R01 - Recycler |
| Tons: | 1.0841 |
| | |
| Year: | 1997 |
| Gepaid: | CAD983596685 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.5212 |
| | |
| Year: | 1995 |
| Gepaid: | CAD983596685 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 223 - Unspecified oil-containing waste |
| Disposal Method: | R01 - Recycler |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

Tons: 0.3127

Additional Info:

| | |
|---|---|
| Year: | 1995 |
| Gen EPA ID: | CAD983596685 |
| Shipment Date: | 19950814 |
| Creation Date: | 4/2/1996 0:00:00 |
| Receipt Date: | 19950815 |
| Manifest ID: | 95245792 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.3127 |
| Waste Quantity: | 75 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1999 |
| Gen EPA ID: | CAD983596685 |
| Shipment Date: | 19991117 |
| Creation Date: | 1/19/2000 0:00:00 |
| Receipt Date: | 19991117 |
| Manifest ID: | 99563748 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.271 |
| Waste Quantity: | 65 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990520 |
| Creation Date: | 7/13/1999 0:00:00 |
| Receipt Date: | 19990524 |
| Manifest ID: | 98888274 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2293 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990322 |
| Creation Date: | 5/17/1999 0:00:00 |
| Receipt Date: | 19990325 |
| Manifest ID: | 98888182 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2919 |
| Waste Quantity: | 70 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19990108 |
| Creation Date: | 3/17/1999 0:00:00 |
| Receipt Date: | 19990112 |
| Manifest ID: | 98888030 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

| | |
|---|---|
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2502 |
| Waste Quantity: | 60 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1997 |
| Gen EPA ID: | CAD983596685 |
| | |
| Shipment Date: | 19971014 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971017 |
| Manifest ID: | 97238040 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1876 |
| Waste Quantity: | 45 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19970827 |
| Creation Date: | 3/18/1998 0:00:00 |
| Receipt Date: | 19970828 |
| Manifest ID: | 96060755 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.3336 |
| Waste Quantity: | 80 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1998 |
| Gen EPA ID: | CAD983596685 |
| | |
| Shipment Date: | 19981027 |
| Creation Date: | 1/13/1999 0:00:00 |
| Receipt Date: | 19981102 |
| Manifest ID: | 98041520 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2919 |
| Waste Quantity: | 70 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 19980709 |
| Creation Date: | 9/15/1998 0:00:00 |
| Receipt Date: | 19980713 |
| Manifest ID: | 98041325 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.271 |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

| | |
|---|---|
| Waste Quantity: | 65 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980505 |
| Creation Date: | 8/3/1998 0:00:00 |
| Receipt Date: | 19980512 |
| Manifest ID: | 98013636 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.271 |
| Waste Quantity: | 65 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 19980106 |
| Creation Date: | 3/31/1998 0:00:00 |
| Receipt Date: | 19980107 |
| Manifest ID: | 97238190 |
| Trans EPA ID: | CAL000027707 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.2502 |
| Waste Quantity: | 60 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**MOTRA TRANSMISSIONS (Continued)** **1000595715**

HWTS:

| | |
|---|---|
| Name: | MOTRA TRANSMISSIONS |
| Address: | 2005 N TUSTIN AVE STE C |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAD983596685 |
| Inactive Date: | 01/01/1900 |
| Create Date: | 07/25/1991 |
| Last Act Date: | 08/10/2004 |
| Mailing Name: | Not reported |
| Mailing Address: | 2005 N TUSTIN AVE STE C |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927057801 |
| Owner Name: | MOTRA TRANSMISSIONS |
| Owner Address: | 2005 N TUSTIN AVE STE C |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact Name: | INACT PER SURVEY 3/95 CM |
| Contact Address: | NOT REQUIRED |
| Contact Address 2: | Not reported |
| City,State,Zip: | NOT REQUIRED, ME 999990000 |

---

**L86** **SADDLEBACK AUTOMOTIVE IV INC** **RCRA NonGen / NLR** **1024790961**
**SSE** **2005 N TUSTIN AVE** **CAL000095367**
**1/8-1/4** **SANTA ANA, CA 92705**
**0.245 mi.**
**1293 ft.** **Site 15 of 16 in cluster L**

**Relative:**
**Lower**

**Actual:**
**185 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 19930713 |
| Handler Name: | SADDLEBACK AUTOMOTIVE IV INC |
| Handler Address: | 2005 N TUSTIN AVE |
| Handler City,State,Zip: | SANTA ANA, CA 92705-0000 |
| EPA ID: | CAL000095367 |
| Contact Name: | JUAN MARTINEZ MGR |
| Contact Address: | 2005 N TUSTIN AVE |
| Contact City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Telephone: | 714-558-6002 |
| Contact Fax: | 000-000-0000 |
| Contact Email: | JUANMARTINEZ0302@YAHOO.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 2005 N TUSTIN AVE STE B |
| Mailing City,State,Zip: | SANTA ANA, CA 92705-7801 |
| Owner Name: | SADDLEBACK AUTOMOTIVE INC |
| Owner Type: | Other |
| Operator Name: | JUAN MARTINEZ MGR |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |

**SADDLEBACK AUTOMOTIVE IV INC (Continued)** **1024790961**

| | |
|---|---|
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 20180905 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

**SADDLEBACK AUTOMOTIVE IV INC (Continued)** **1024790961**

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | SADDLEBACK AUTOMOTIVE INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2005 N TUSTIN AVE STE B |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705-7801 |
| Owner/Operator Telephone: | 714-558-6002 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JUAN MARTINEZ MGR |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2005 N TUSTIN AVE |
| Owner/Operator City,State,Zip: | SANTA ANA, CA 92705 |
| Owner/Operator Telephone: | 714-558-6002 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 19930713 |
| Handler Name: | SADDLEBACK AUTOMOTIVE IV INC |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**L87 SSE 1/8-1/4 0.245 mi. 1293 ft.** | **TUSTIN AVE AUTOPLEX PARTNERS**
**2005 N TUSTIN AVE**
**SANTA ANA, CA 92701**

**Site 16 of 16 in cluster L**

**CERS HAZ WASTE**
**HAZNET**
**CERS**
**HWTS**

**S113067514**
**N/A**

**Relative: Lower**
**Actual: 185 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Address: | 2005 N TUSTIN AVE STE A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 412905 |
| CERS ID: | 10157835 |
| CERS Description: | Hazardous Waste Generator |

| | |
|---|---|
| Name: | SADDLEBACK AUTOMOTIVE NO 4 |
| Address: | 2005 N TUSTIN AVE STE B |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 563461 |
| CERS ID: | 10518538 |
| CERS Description: | Hazardous Waste Generator |

| | |
|---|---|
| Name: | MOS GARAGE |
| Address: | 2005 N TUSTIN AVE STE C |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 576424 |
| CERS ID: | 10874464 |
| CERS Description: | Hazardous Waste Generator |

HAZNET:

| | |
|---|---|
| Name: | TUSTIN AVE AUTOPLEX PARTNERS |
| Address: | 2005 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| Contact: | SCOTT RIMLAND |
| Telephone: | -- |
| Mailing Name: | Not reported |
| Mailing Address: | 375 BRISTOL ST STE 50 |
| Year: | 2001 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.0546 |
| Year: | 2001 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 791 - Liquids with pH <= 2 |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.0041 |
| Year: | 1997 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 222 - Oil/water separation sludge |
| Disposal Method: | R01 - Recycler |
| Tons: | 5.421 |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Year: | 1996 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 222 - Oil/water separation sludge |
| Disposal Method: | R01 - Recycler |
| Tons: | 6.8805 |
| | |
| Year: | 1994 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | R01 - Recycler |
| Tons: | 4.75 |
| | |
| Year: | 1993 |
| Gepaid: | CAL000120180 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 221 - Waste oil and mixed oil |
| Disposal Method: | R01 - Recycler |
| Tons: | 4.94 |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAL000120180 |
| | |
| Shipment Date: | 19961210 |
| Creation Date: | 5/30/1997 0:00:00 |
| Receipt Date: | 19961213 |
| Manifest ID: | 96328904 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 6.8805 |
| Waste Quantity: | 1650 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1994 |
| Gen EPA ID: | CAL000120180 |
| | |
| Shipment Date: | 19940920 |
| Creation Date: | 3/26/1996 0:00:00 |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Receipt Date: | 19940920 |
| Manifest ID: | 93015942 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 4.75 |
| Waste Quantity: | 1250 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1997 |
| Gen EPA ID: | CAL000120180 |
| Shipment Date: | 19971008 |
| Creation Date: | 7/23/1998 0:00:00 |
| Receipt Date: | 19971010 |
| Manifest ID: | 96806692 |
| Trans EPA ID: | CAD008244337 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 222 - Oil/water separation sludge |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 5.421 |
| Waste Quantity: | 1300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2001 |
| Gen EPA ID: | CAL000120180 |
| Shipment Date: | 20010419 |
| Creation Date: | 7/10/2001 0:00:00 |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Receipt Date: | 20010424 |
| Manifest ID: | 20742053 |
| Trans EPA ID: | CAD044003556 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.0546 |
| Waste Quantity: | 13 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20010419 |
| Creation Date: | 7/10/2001 0:00:00 |
| Receipt Date: | 20010424 |
| Manifest ID: | 20742053 |
| Trans EPA ID: | CAD044003556 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 791 - Liquids with pH < 2 792 Liquids with pH < 2 with metals |
| RCRA Code: | D002 |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.0041 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1993 |
| Gen EPA ID: | CAL000120180 |

| | |
|---|---|
| Shipment Date: | 19931018 |
| Creation Date: | 9/13/1995 0:00:00 |
| Receipt Date: | 19931019 |
| Manifest ID: | 93015680 |
| Trans EPA ID: | CAT080033764 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 4.94 |
| Waste Quantity: | 1300 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | MOS GARAGE |
| Address: | 2005 N TUSTIN AVE STE C |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 576424 |
| CERS ID: | 10874464 |
| CERS Description: | Chemical Storage Facilities |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | MO ALIHASSAN |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 322-9407 |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 2005 N TUSTIN AVE SUITE C |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | MOS GARAGE INC |
| Entity Title: | Not reported |
| Affiliation Address: | 2005 N Tustin Ave Ste C |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 834-0256 |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Entity Name: | MOS GARAGE |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |

| | |
|---|---|
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Mo Alihassan |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Mo Alihassan |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | MO ALIHASSAN |
| Entity Title: | Not reported |
| Affiliation Address: | 2005 N Tustin Ave Ste C |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Address: | 2005 N TUSTIN AVE STE A |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 412905 |
| CERS ID: | 10157835 |
| CERS Description: | Chemical Storage Facilities |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

Violations:

| | |
|---|---|
| Site ID: | 412905 |
| Site Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Violation Date: | 02-06-2020 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 05/13/2020. Observed one 55-gallon container of waste coolant with a faded and illegible hazardous waste label. Attach a legible hazardous waste label with all required elements to the 55-gallon container of waste coolant. Submit photograph(s) to this agency within 30 days showing corrective action. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 412905 |
| Site Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Violation Date: | 01-27-2017 |
| Citation: | 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f) |
| Violation Description: | Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. |
| Violation Notes: | Returned to compliance on 01/27/2017. Oil rags container missing hazardous waste label. Label provided during inspection. Labeled filled in with all required information and adhered to container. Violation corrected on site. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 412905 |
| Site Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Violation Date: | 02-06-2020 |
| Citation: | 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173 |
| Violation Description: | Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak. |
| Violation Notes: | Returned to compliance on 05/13/2020. Observed the following hazardous waste containers open and missing bung caps: - two 55-gallon containers of waste coolant - one 30-gallon container of waste brake fluid Provide bung caps for the hazardous waste containers. Submit photograph(s) to this agency within 30 days showing corrective action. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Site ID: | 412905 |
| Site Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Violation Date: | 06-29-2016 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Returned to compliance on 06/12/2017. Employee training records are not available for review. All employees are required to be trained annually; new employees are required to be trained within 6 months. Please provide training records for the Hazardous Materials Business Plan with the following information documented: topic of training, date, employee name, employee signature. Violation must be corrected immediately and documents must be submitted to this Agency within 30 days. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 412905 |
| Site Name: | FIRESTONE COMPL AUTO CARE #023884 |
| Violation Date: | 02-06-2020 |
| Citation: | 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31 |
| Violation Description: | Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment. |
| Violation Notes: | Returned to compliance on 05/13/2020. Observed oily liquid in the secondary containment pallets under the 55-gallon containers of hazardous waste. Immediately clean up the release of oily liquid from the secondary containment pallets. Manage the waste in a closed container and label container with all required elements. Submit photograph(s) to this agency within 30 days showing corrective action. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

Evaluation:

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-03-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | File Review |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-08-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-17-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Review of Submission Package G DENIED, as Facility Map does not show location of: -emergency response equipment -nearest fire hydrant -electrical panel, natural gas and water shut-off. Request for resubmittal this date. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-29-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed and accepted CERS submission |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-01-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Facility has complied with 2016 HMBEP reporting requirement. Facility has reduced their disclosed chemicals to 6. All forms were accepted. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-13-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Read/review pre 2015 HMBEP submission. Accepted pending review of the more recent submission. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-21-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | 7/21/2016 Hello, your submittal has been conditionally approved in order to facilitate the data transfer to our new compliance site, the California Environmental Reporting System (CERS). The items listed below will still need to be addressed and corrected before this submittal is deemed as complete. Per the routine inspection that occurred on 6/29/2016, the following items need to be updated for the submittal to be deemed as complete: The following materials were observed on site but have not been disclosed electronically. Please update the chemical inventory online: - Waste Brake Fluid (55 gallons) |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

Site map needs to be updated to reflect the current location of the hazardous materials storage areas. Additionally, please show the locations for the storm drain and sewer. Any questions, please feel free to contact me at 714-720-1327 or minh.le@ochca.com. Thank you. Minh Le.

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-19-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: I responded to an email received. I responded to an email with this: "Hello Karen, I am the inspector assigned to this and will look into the issue. Please note that the zip code for this facility is 92705, not 92701 as you specified in your previous email to our inspector Brenda Puepke. Regards, Michael OG Donnell Hazardous Waste Specialist Environmental Health Orange County Environmental Health 1241 East Dyer Road, Suite 120 Santa Ana, CA 92705 modonnell@ochca.com tel: 714-640-4249 fax: 714-754-1768 From: Puepke, Brenda Sent: Tuesday, November 19, 2013 7:54 AM To: Moecker, Karen Cc: ODonnell, Michael Subject: RE: Release of Review Pending Hi Karen, This facility is not in my district. The appropriate inspector is Michael OG Donnell, who I have ccG d above. Thanks! Brenda From: Moecker, Karen [mailto:kmoecker@bfrc.com] Sent: Friday, November 15, 2013 10:06 AM To: Puepke, Brenda Cc: ESubmit Subject: RE: Release of Review [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-19-2013
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: reviewed status
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: A routine hazardous waste inspection was conducted. Antoine Shaw, sales representative at the front desk, granted me permission to inspect. The service bays, hazardous materials storage area, perimeter of facility, and trash dumpster were inspected. No hazardous waste observed in dumpster. The tank of waste oil and drums of hazardous waste were stored closed and labeled with required hazardous waste information. Manifests for disposal of hazardous waste were on site, available for review. This business has a Business Emergency Plan and absorbent material is maintained on site for response to potential spills of hazardous materials.
Eval Division: Orange County Environmental Health
Eval Program: HW

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: submission in review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed submission in e-Submit portal, and set status in portal to G DECLINED,G based on the following: FACILITY MAP 1) does not show location of emergency response equipment 2) does not show location of nearest fire hydrant 3) does not show location of electrical panel, natural gas and water shut-off. CHEMICAL INVENTORY 01) Antifreeze: Fed Haz Category (216): did not check G FIRE.G 02) Freon Gas: units should be G CUBIC FEETG (#221) not gallons, and only disclose if G MAXIMUM DAILY AMOUNTG (#218) is greater than, or equal to, 200 cubic feet. 03) Lead Acid Battery: should be G EHSG (#208), should be G LIQUIDG (#214), G LARGEST CONTAINERG should be in gallons of electrolyte (#215), G HAZARDOUS COMPONENTG should be G Sulfuric AcidG only (#227). 04) Brake Fluid: should not be disclosed, as G MAXIMUM DAILY AMOUNTG (#218) is not greater than, or equal to, 55 gallons. 05) Lead Acid Battery G USED: should be G EHSG (#208), should be G LIQUIDG (#214), G LARGEST CONTAINERG should [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-06-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to conduct a routine hazardous waste inspection. This facility is owned by Bridgestone Retail Operations LLC and currently has 8 employees. Walked throughout the facility and observed the hazardous waste storage area(s). This facility currently generates the following hazardous waste: - Used oil (285-gallon tank) - Waste coolant (2 x 55-gallon containers) - Waste oily water (2 x 55-gallon containers) - Waste brake fluid (1 x 30-gallon container) - Waste aerosols (1 x 55-gallon container) - Non-metal oil filters (1 x 55-gallon container) - Waste brake pads (1 x 30-gallon container) - Parts washer fluid Hazardous waste manifests were available for review. The emergency response plan was available on site. Employees are familiar with hazardous waste handling and emergency procedures. A copy of this inspection report will be sent to: Anaik Martinez, Service Manager <anaik.martinez@gmail.com>
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Eval Date: | 03-31-2020 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The purpose of this offsite reinspection is to follow up on the violations cited on the routine inspection report dated 2/6/2020. The following violations cited on 2/6/2020 remain outstanding and require immediate corrective action: (I400): Observed one 55-gallon container of waste coolant with a faded and illegible hazardous waste label. (I411): Observed the following hazardous waste containers open and missing bung caps: - two 55-gallon containers of waste coolant - one 30-gallon container of waste brake fluid (I014): Observed oily liquid in the secondary containment pallets under the 55-gallon containers of hazardous waste. CORRECTIVE ACTION REQUIRED: - Attach a legible hazardous waste label with all required elements to the 55-gallon container of waste coolant - Provide bung caps for the hazardous waste containers - Immediately clean up the release of oily liquid from the secondary containment pallets. Manage the waste in a closed container and [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-16-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The following documents were received and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training Plans |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-27-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: On site for a routine hazardous waste inspection. Consent to inspect and take any necessary photos was given by Freddy Roys, Store manager. Business ownership information was verified. The current number of employees is 10. Walked throughout the facility. Observed hazardous waste storage areas. Containers were stored closed while not in use. Container missing label, violation cited. Manifests were available and reviewed. Employees are reported to be trained. Emergency plan is lobby. A perimeter walk was conducted and the dumpster enclosure was observed. No signs of illegal dumping were noted. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-06-2020 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for routine hazardous materials and business emergency plan inspection. Observed the facility and inspected hazardous materials |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - New motor oil - New coolant - Freon gas - Used oil - Waste coolant - Waste oily water The facility is responsible for identifying all hazardous materials, and to include hazardous wastes, which are above disclosure thresholds (55 gallons of a liquid, 500 pounds of a solid, 200 cubic feet of a compressed gas). If there is a change in the type or amount of chemicals that are maintained on site, please submit revised documents (electronically) within 30 days of the change. Hazardous Materials documents can be submitted via the California Environmental Reporting System (CERS) located at http://cers.calepa.ca.gov/. A copy of this inspection report will be sent to: Anaik Martinez, Service Manager [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on E-submit: Business Activities Form Business Owner/Operator Form Chemical Inventory for 9 chemicals Facility Site Map PE changed to 5802

Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-13-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The purpose of this offsite reinspection is to follow up on the violations cited in a previous inspection report. The business has provided photographs showing the following corrective actions: - legible labels with all required labeling elements attached to waste coolant containers - bung caps provided for the hazardous waste containers; closed hazardous waste containers - clean secondary containment pallets; no presence of oily liquid within pallets Violations I400, I014, and I411 have been corrected. No violations remain under the Hazardous Waste Generator program. A copy of this report will be emailed to: Dain Brandrup, Environmental Manager <brandrupdain@bfusa.com>

Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-21-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Eval Date: | 11-18-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | File Review |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-23-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | submission in review. Initial review. Not finished with map detail review. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-08-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-17-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | update waste stream page |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-07-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed HMBEP submittal on Esubmit. Package was DECLINED and an email sent to the facility contact. The following corrections are needed: CHEMICAL INVENTORY Lead Acid Battery G check the box for EHS for sulfuric acid on the Hazardous Components chart Motor Oil G new and used and Oily Water G provide CAS #s for hazardous components (oil CAS # = 64742-65-0) Transmission Fluid G provide CAS # for hazardous components Used antifreeze - provide CAS # for hazardous components (ethylene glycol = 107-21-1) Used Filters G this material appears to be below the minimum threshold reporting quantity of 500 pounds. Generally, 3 55-gallon drums of uncrushed oil filters is 500 pounds. Please verify your amount and resubmit if needed. If you do store 500 pounds of filters, you will also need to provide a state waste code (223) and complete the Hazardous Component chart as follows: %WT = 10, Hazardous Component = various petroleum oils, CAS # = 64742-65-0. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 05-21-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Read/review 2015 HMBEP re submission. All requested changes have been made. Accepted. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-22-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 06-29-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | INSPECTOR COMMENTS On site for routine hazardous materials and business emergency plan inspection. Consent to enter and inspect was given by Freddy Roys, Store Manager. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Antifreeze (110 gallons) - Lead Acid Battery (138 gallons) - Motor Oil (770 gallons) - Waste Antifreeze (55 gallons) - Waste Oil (285 gallons) - Waste Oily Water/Mop Water (110 gallons) - Waste Brake Fluid (55 gallons) The following materials were observed on site but have not been disclosed electronically. Please update the chemical inventory online: - Waste Brake Fluid (55 gallons) Site map needs to be updated to reflect the current location of the hazardous materials storage areas. Additionally, please show the locations for the storm drain and sewer. The Emergency Plan is on site. Employee [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Bridgestone Retail Operations, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 200 4th Ave South Attn: Environmental-BSRO |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Affiliation City: | Nashville |
| Affiliation State: | TN |
| Affiliation Country: | United States |
| Affiliation Zip: | 37201 |
| Affiliation Phone: | (209) 482-5486 |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Bridgestone Retail Operations, LLC. (BSRO) |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | T & N Tustin Investments, LLC |
| Entity Title: | Not reported |
| Affiliation Address: | 5 Daystar, Suite 100 |
| Affiliation City: | Irvine |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92612 |
| Affiliation Phone: | (949) 474-4334 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Sheila Caballero |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Sheila Caballero |
| Entity Title: | Environmental Compliance Specialist |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Sheila Caballero-BSRO |
| Entity Title: | Not reported |
| Affiliation Address: | 200 4th Avenue South Attn: Environmental-BSRO |
| Affiliation City: | Nashville |
| Affiliation State: | TN |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 37201 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |

**TUSTIN AVE AUTOPLEX PARTNERS (Continued)** **S113067514**

| | |
|---|---|
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 200 4th Ave South Attn: Environmental-BSRO |
| Affiliation City: | Nashville |
| Affiliation State: | TN |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 37201 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | FIRESTONE COMPLETE AUTO CARE |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 541-7977 |

HWTS:

| | |
|---|---|
| Name: | TUSTIN AVE AUTOPLEX PARTNERS |
| Address: | 2005 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927010000 |
| EPA ID: | CAL000120180 |
| Inactive Date: | 06/30/2002 |
| Create Date: | 10/14/1993 |
| Last Act Date: | 10/08/2002 |
| Mailing Name: | Not reported |
| Mailing Address: | 375 BRISTOL ST STE 50 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | COSTA MESA, CA 926260000 |
| Owner Name: | TUSTIN AVE AUTOPLEX PARTNERS |
| Owner Address: | 375 BRISTOL ST STE 50 |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | COSTA MESA, CA -- |
| Contact Name: | SCOTT RIMLAND |
| Contact Address: | INACTIVE PER VQ98 - BMI |
| Contact Address 2: | Not reported |
| City,State,Zip: | COSTA MESA, CA -- |

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**88** **DANNY K CLEANERS (FORMER)** **ENVIROSTOR** **S120052837**
**SSE** **1941 N. TUSTIN AVENUE** **VCP** **N/A**
**1/4-1/2** **SANTA ANA, CA 92705** **DEED**
**0.274 mi.**
**1447 ft.**

**Relative:**
**Lower**

**Actual:**
**184 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | DANNY K CLEANERS (FORMER) |
| Address: | 1941 N. TUSTIN AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 60002324 |
| Status: | Certified O&M - Land Use Restrictions Only |
| Status Date: | 02/09/2021 |
| Site Code: | 401736 |
| Site Type: | Voluntary Cleanup |

**DANNY K CLEANERS (FORMER) (Continued)** **S120052837**

| | |
|---|---|
| Site Type Detailed: | Voluntary Cleanup |
| Acres: | 0.08 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Greg Sweel |
| Supervisor: | Yolanda Garza |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | , 69 |
| Senate: | , 34 |
| Special Program: | Not reported |
| Restricted Use: | YES |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Responsible Party |
| Latitude: | 33.76349 |
| Longitude: | -117.8352 |
| APN: | 396-301-06 |
| Past Use: | DRY CLEANING |
| Potential COC: | Tetrachloroethylene (PCE |
| Confirmed COC: | Tetrachloroethylene (PCE |
| Potential Description: | SV |
| Alias Name: | 396-301-06 |
| Alias Type: | APN |
| Alias Name: | 401736 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 401736 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60002324 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/28/2019 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/13/2020 |
| Comments: | Not reported |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/20/2021 |
| Comments: | Completed |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Standard Voluntary Agreement |
| Completed Date: | 11/22/2016 |
| Comments: | Fully executed VCA. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Other Report |

**DANNY K CLEANERS (FORMER) (Continued)** **S120052837**

Completed Date: 02/28/2017
Comments: Final DTSC Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/18/2017
Comments: Conditional Approval Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/05/2018
Comments: FY 1819 Estimate: $10,642

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 10/09/2018
Comments: Fully Executed & Recorded Final LUC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2019
Comments: Completed on 9/10/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: DTSC completed PM for the FY.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2023
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: DANNY K CLEANERS (FORMER)
Address: 1941 N. TUSTIN AVENUE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 60002324
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED

**DANNY K CLEANERS (FORMER) (Continued)** **S120052837**

| | |
|---|---|
| Acres: | 0.08 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Greg Sweel |
| Supervisor: | Yolanda Garza |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 401736 |
| Assembly: | , 69 |
| Senate: | , 34 |
| Special Programs Code: | Not reported |
| Status: | Certified O&M - Land Use Restrictions Only |
| Status Date: | 02/09/2021 |
| Restricted Use: | YES |
| Funding: | Responsible Party |
| Lat/Long: | 33.76349 / -117.8352 |
| APN: | 396-301-06 |
| Past Use: | DRY CLEANING |
| Potential COC: | 30022 |
| Confirmed COC: | 30022 |
| Potential Description: | SV |
| Alias Name: | 396-301-06 |
| Alias Type: | APN |
| Alias Name: | 401736 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 401736 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60002324 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/28/2019 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/13/2020 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Land Use Restriction Monitoring Report |
| Completed Date: | 01/20/2021 |
| Comments: | Completed |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Standard Voluntary Agreement |
| Completed Date: | 11/22/2016 |
| Comments: | Fully executed VCA. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**DANNY K CLEANERS (FORMER) (Continued)** **S120052837**

Completed Document Type: Other Report
Completed Date: 02/28/2017
Comments: Final DTSC Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/18/2017
Comments: Conditional Approval Letter

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/05/2018
Comments: FY 1819 Estimate: $10,642

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/14/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 10/09/2018
Comments: Fully Executed & Recorded Final LUC

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/10/2019
Comments: Completed on 9/10/2019.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: DTSC completed PM for the FY.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2023
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DEED:
Name: DANNY K CLEANERS (FORMER)
Address: 1941 N. TUSTIN AVENUE
City,State,Zip: SANTA ANA, CA 92705
Envirostor ID: 60002324
Area: PROJECT WIDE
Sub Area: Not reported

**DANNY K CLEANERS (FORMER) (Continued)** **S120052837**

Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 10/09/2018
File Name: Envirostor Land Use Restrictions

---

**M89** **TUSTIN AVENUE** **PFAS** **S127519675**
**SSE** **N/A**
**1/4-1/2** **TUSTIN, CA**
**0.398 mi.**
**2103 ft.** **Site 1 of 2 in cluster M**

**Relative:**
**Lower**

**Actual:**
**179 ft.**

PFAS:

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |

**TUSTIN AVENUE (Continued)** **S127519675**

Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals

**TUSTIN AVENUE (Continued)** **S127519675**

Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

**TUSTIN AVENUE (Continued)** **S127519675**

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA

**TUSTIN AVENUE (Continued)** **S127519675**

Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

| | |
|---|---|
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |

**TUSTIN AVENUE (Continued)** **S127519675**

Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732

**TUSTIN AVENUE (Continued)** **S127519675**

Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

**TUSTIN AVENUE (Continued)** **S127519675**

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA

**TUSTIN AVENUE (Continued)** **S127519675**

Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

| | |
|---|---|
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |

**TUSTIN AVENUE (Continued)** **S127519675**

Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732

**TUSTIN AVENUE (Continued)** **S127519675**

Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

**TUSTIN AVENUE (Continued)** **S127519675**

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA

**TUSTIN AVENUE (Continued)** **S127519675**

Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

| | |
|---|---|
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
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| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

| | |
|---|---|
| Name: | TUSTIN AVENUE |
| Address: | Not reported |
| City,State,Zip: | TUSTIN, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |

**TUSTIN AVENUE (Continued)** **S127519675**

Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
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Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
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source_type: All PFAS Chemicals
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Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732

**TUSTIN AVENUE (Continued)** **S127519675**

Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

**TUSTIN AVENUE (Continued)** **S127519675**

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA

**TUSTIN AVENUE (Continued)** **S127519675**

Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010046
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.761732
Longitude: -117.834444
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046

Name: TUSTIN AVENUE
Address: Not reported
City,State,Zip: TUSTIN, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported

**TUSTIN AVENUE (Continued)** **S127519675**

| | |
|---|---|
| Global ID: | W0603010046 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.761732 |
| Longitude: | -117.834444 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010046 |

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**N90 North 1/4-1/2 0.408 mi. 2152 ft.** **SHELL SERVICE STATION** **LUST** **S105696184**
**889 TUSTIN** **Cortese** **N/A**
**ORANGE, CA 92866** **CERS**

**Site 1 of 2 in cluster N**

**Relative: Higher**

**Actual: 209 ft.**

LUST:

| | |
|---|---|
| Name: | SHELL STATION |
| Address: | 889 TUSTIN |
| City,State,Zip: | ORANGE, CA 92866 |
| Lead Agency: | ORANGE COUNTY LOP |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605928372 |
| Global Id: | T0605928372 |
| Latitude: | 33.802083 |
| Longitude: | -117.835649 |
| Status: | Completed - Case Closed |
| Status Date: | 04/12/2004 |
| Case Worker: | SR |
| RB Case Number: | Not reported |
| Local Agency: | ORANGE COUNTY LOP |
| File Location: | Local Agency Warehouse |
| Local Case Number: | 03UT016 |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605928372 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | CARL BERNHARDT |
| Organization Name: | SANTA ANA RWQCB (REGION 8) |
| Address: | 3737 MAIN STREET, SUITE 500 |
| City: | RIVERSIDE |
| Email: | carl.bernhardt@waterboards.ca.gov |
| Phone Number: | 9517824495 |
| Global Id: | T0605928372 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | SHYAMALA RAJAGOPAL |

**SHELL SERVICE STATION (Continued)** **S105696184**

Organization Name: ORANGE COUNTY LOP
Address: 1241 E. DYER ROAD SUITE 120
City: SANTA ANA
Email: srajagopal@ochca.com
Phone Number: 7144336262

LUST:
Global Id: T0605928372
Action Type: Other
Date: 11/17/2002
Action: Leak Discovery

Global Id: T0605928372
Action Type: RESPONSE
Date: 05/09/2003
Action: Preliminary Site Assessment Workplan

Global Id: T0605928372
Action Type: ENFORCEMENT
Date: 07/09/2003
Action: Staff Letter

Global Id: T0605928372
Action Type: Other
Date: 12/23/2002
Action: Leak Reported

Global Id: T0605928372
Action Type: ENFORCEMENT
Date: 04/12/2004
Action: Closure/No Further Action Letter

Global Id: T0605928372
Action Type: ENFORCEMENT
Date: 04/02/2003
Action: Notice of Responsibility

Global Id: T0605928372
Action Type: ENFORCEMENT
Date: 02/24/2004
Action: Staff Letter - #1

Global Id: T0605928372
Action Type: ENFORCEMENT
Date: 02/24/2004
Action: Staff Letter - #2

LUST:
Global Id: T0605928372
Status: Open - Case Begin Date
Status Date: 11/17/2002

Global Id: T0605928372
Status: Open - Site Assessment
Status Date: 04/02/2003

**SHELL SERVICE STATION (Continued)** **S105696184**

Global Id: T0605928372
Status: Completed - Case Closed
Status Date: 04/12/2004

Name: SHELL SERVICE STATION
Address: 889 TUSTIN
City,State,Zip: ORANGE, CA 92866
Lead Agency: ORANGE COUNTY LOP
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605901183
Global Id: T0605901183
Latitude: 33.773605
Longitude: -117.835354
Status: Completed - Case Closed
Status Date: 09/21/1998
Case Worker: SR
RB Case Number: 083001548T
Local Agency: ORANGE COUNTY LOP
File Location: Local Agency
Local Case Number: 98UT007
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0605901183
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0605901183
Contact Type: Local Agency Caseworker
Contact Name: SHYAMALA RAJAGOPAL
Organization Name: ORANGE COUNTY LOP
Address: 1241 E. DYER ROAD SUITE 120
City: SANTA ANA
Email: srajagopal@ochca.com
Phone Number: 7144336262

LUST:
Global Id: T0605901183
Action Type: Other
Date: 05/01/1990
Action: Leak Discovery

Global Id: T0605901183
Action Type: Other
Date: 05/01/1990
Action: Leak Reported

LUST:
Global Id: T0605901183

**SHELL SERVICE STATION (Continued)** **S105696184**

| | |
|---|---|
| Status: | Open - Case Begin Date |
| Status Date: | 05/01/1990 |
| Global Id: | T0605901183 |
| Status: | Completed - Case Closed |
| Status Date: | 09/21/1998 |

LUST REG 8:

| | |
|---|---|
| Name: | SHELL SERVICE STATION |
| Address: | 889 TUSTIN |
| City: | ORANGE |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Case Closed |
| Case Number: | 083001548T |
| Local Case Num: | 98UT007 |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | 0 |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | Not reported |
| Funding: | Not reported |
| How Discovered: | Tank Closure |
| How Stopped: | Close Tank |
| Leak Cause: | Unknown |
| Leak Source: | Unknown |
| Global ID: | T0605901183 |
| How Stopped Date: | 9/9/9999 |
| Enter Date: | Not reported |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | 5/1/1990 |
| Enforcement Date: | Not reported |
| Close Date: | 9/21/1998 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | Not reported |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.775817 |
| Longitude: | -117.836115 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |

**SHELL SERVICE STATION (Continued)** **S105696184**

| | |
|---|---|
| MTBE Class: | * |
| Staff: | CAB |
| Staff Initials: | KC |
| Lead Agency: | Local Agency |
| Local Agency: | 30000L |
| Hydr Basin #: | Not reported |
| Beneficial: | MUN |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |
| Summary: | Not reported |

CORTESE:

| | |
|---|---|
| Name: | SHELL SERVICE STATION |
| Address: | 889 TUSTIN |
| City,State,Zip: | ORANGE, CA 92866 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605901183 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

| | |
|---|---|
| Name: | SHELL STATION |
| Address: | 889 TUSTIN |
| City,State,Zip: | ORANGE, CA 92866 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605928372 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |

**SHELL SERVICE STATION (Continued)** **S105696184**

| | |
|---|---|
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

CERS:

| | |
|---|---|
| Name: | SHELL STATION |
| Address: | 889 TUSTIN |
| City,State,Zip: | ORANGE, CA 92866 |
| Site ID: | 228004 |
| CERS ID: | T0605928372 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 E. DYER ROAD SUITE 120 |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 7144336262 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | CARL BERNHARDT - SANTA ANA RWQCB (REGION 8) |
| Entity Title: | Not reported |
| Affiliation Address: | 3737 MAIN STREET, SUITE 500 |
| Affiliation City: | RIVERSIDE |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9517824495 |

| | |
|---|---|
| Name: | SHELL SERVICE STATION |
| Address: | 889 TUSTIN |
| City,State,Zip: | ORANGE, CA 92866 |
| Site ID: | 217323 |
| CERS ID: | T0605901183 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Local Agency Caseworker |
| Entity Name: | SHYAMALA RAJAGOPAL - ORANGE COUNTY LOP |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 E. DYER ROAD SUITE 120 |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 7144336262 |

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | CARL BERNHARDT - SANTA ANA RWQCB (REGION 8) |
| Entity Title: | Not reported |
| Affiliation Address: | 3737 MAIN STREET, SUITE 500 |

**SHELL SERVICE STATION (Continued)** **S105696184**

| | |
|---|---|
| Affiliation City: | RIVERSIDE |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | 9517824495 |

---

**N91 North 1/4-1/2 0.408 mi. 2152 ft.** **JASMINE'S SHELL** **LUST** **S113028587**
**889 S TUSTIN AVE** **HAZNET** **N/A**
**ORANGE, CA 92867** **HWTS**

**Site 2 of 2 in cluster N**

**Relative: Higher**

**Actual: 209 ft.**

ORANGE CO. LUST:

| | |
|---|---|
| Name: | SHELL SERVICE STATION |
| Address: | 889 S TUSTIN AVE |
| City,State,Zip: | ORANGE, CA 92866 |
| Region: | ORANGE |
| Facility Id: | 98UT007 |
| Released Substance: | Gasoline-Automotive (motor gasoline and additives), leaded & unleaded |
| Date Closed: | 09/21/1998 |
| Record ID: | RO0000832 |

HAZNET:

| | |
|---|---|
| Name: | JASMINE'S SHELL |
| Address: | 889 S TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | ORANGE, CA 928670000 |
| Contact: | HASMIG KEUSHGERIAN-OWNER |
| Telephone: | 7145323966 |
| Mailing Name: | Not reported |
| Mailing Address: | 889 S TUSTIN AVE |
| | |
| Year: | 2004 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT080033681 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | D80 - Disposal, Land Fill |
| Tons: | 0.238 |
| | |
| Year: | 2000 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 133 - Aqueous solution with total organic residues 10 percent or more |
| Disposal Method: | R01 - Recycler |
| Tons: | 0.1251 |
| | |
| Year: | 1996 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT000613976 |
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1245 |
| | |
| Year: | 1994 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT000613976 |

**JASMINE'S SHELL (Continued)** **S113028587**

| | |
|---|---|
| CA Waste Code: | 343 - Unspecified organic liquid mixture |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1245 |
| | |
| Year: | 1993 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 341 - Organic liquids (nonsolvents) with halogens |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.1245 |
| | |
| Year: | 1992 |
| Gepaid: | CAL000019773 |
| TSD EPA ID: | CAT000613893 |
| CA Waste Code: | 341 - Organic liquids (nonsolvents) with halogens |
| Disposal Method: | H01 - Transfer Station |
| Tons: | 0.124 |

Additional Info:

| | |
|---|---|
| Year: | 1994 |
| Gen EPA ID: | CAL000019773 |
| | |
| Shipment Date: | 19940922 |
| Creation Date: | 3/26/1996 0:00:00 |
| Receipt Date: | 19940922 |
| Manifest ID: | 93660846 |
| Trans EPA ID: | ILD984908202 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613976 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1245 |
| Waste Quantity: | 249 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2004 |
| Gen EPA ID: | CAL000019773 |
| | |
| Shipment Date: | 20041116 |
| Creation Date: | 3/13/2007 18:30:28 |
| Receipt Date: | 20041123 |
| Manifest ID: | 24025459 |
| Trans EPA ID: | CAD028277036 |

**JASMINE'S SHELL (Continued)** **S113028587**

| | |
|---|---|
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | D / K - ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | NONE |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 0.051 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20040809 |
| Creation Date: | 1/6/2005 18:30:52 |
| Receipt Date: | 20040812 |
| Manifest ID: | 23579048 |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | ASBURY ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080033681 |
| Trans Name: | D / K - ENVIRONMENTAL |
| TSDF Alt EPA ID: | CAT080033681 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | NONE |
| Meth Code: | D80 - Disposal, Land Fill |
| Quantity Tons: | 0.187 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1996 |
| Gen EPA ID: | CAL000019773 |

| | |
|---|---|
| Shipment Date: | 19960524 |
| Creation Date: | 5/20/1997 0:00:00 |
| Receipt Date: | 19960524 |
| Manifest ID: | 93660882 |
| Trans EPA ID: | ILD984908202 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613976 |
| Trans Name: | Not reported |

**JASMINE'S SHELL (Continued)** **S113028587**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1245 |
| Waste Quantity: | 249 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 1993 |
| Gen EPA ID: | CAL000019773 |
| Shipment Date: | 19930624 |
| Creation Date: | 9/8/1995 0:00:00 |
| Receipt Date: | 19930628 |
| Manifest ID: | 92408317 |
| Trans EPA ID: | ILD984908202 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | ILD984908202 |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT000613893 |
| Trans Name: | Not reported |
| TSDF Alt EPA ID: | CAT000613893 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 341 - Organic liquids (nonsolvents) with halogens |
| RCRA Code: | D008 |
| Meth Code: | H01 - Transfer Station |
| Quantity Tons: | 0.1245 |
| Waste Quantity: | 249 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2000 |
| Gen EPA ID: | CAL000019773 |
| Shipment Date: | 20000124 |
| Creation Date: | 4/4/2000 0:00:00 |
| Receipt Date: | 20000124 |
| Manifest ID: | 99766168 |
| Trans EPA ID: | CAD028277036 |
| Trans Name: | Not reported |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | Not reported |

**JASMINE'S SHELL (Continued)** **S113028587**

| | |
|---|---|
| TSDF Alt EPA ID: | CAT080013352 |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 133 - Aqueous solution with 10% or more total organic residues |
| RCRA Code: | Not reported |
| Meth Code: | R01 - Recycler |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | JASMINE'S SHELL |
| Address: | 889 S TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | ORANGE, CA 928670000 |
| EPA ID: | CAL000019773 |
| Inactive Date: | 06/30/2020 |
| Create Date: | 11/14/1989 |
| Last Act Date: | 01/04/2021 |
| Mailing Name: | Not reported |
| Mailing Address: | 889 S TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | ORANGE, CA 928660000 |
| Owner Name: | HASMIG KEUSHGERIAN |
| Owner Address: | 889 S TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | ORANGE, CA 928660000 |
| Contact Name: | HASMIG KEUSHGERIAN-OWNER |
| Contact Address: | 889 S TUSTIN ST |
| Contact Address 2: | Not reported |
| City,State,Zip: | ORANGE, CA 92866 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000019773 |
| Create Date: | 2002-03-14 16:36:27.000 |
| NAICS Code: | 44719 |
| NAICS Description: | Other Gasoline Stations |
| Issued EPA ID Date: | 1989-11-14 00:00:00 |
| Inactive Date: | 2020-06-30 00:00:00 |
| Facility Name: | JASMINE'S SHELL |
| Facility Address: | 889 S TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | ORANGE |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 928670000 |

**M92 SSE 1/4-1/2 0.423 mi. 2236 ft.** | **ARCO 13972 TUSTIN SANTA ANA, CA 92701** | **LUST Cortese HIST CORTESE CERS** | **S102424427 N/A**

**Site 2 of 2 in cluster M**

**Relative: Lower**

**Actual: 178 ft.**

LUST:

| | |
|---|---|
| Name: | ARCO |
| Address: | 13972 TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Lead Agency: | ORANGE COUNTY LOP |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0605900864 |
| Global Id: | T0605900864 |
| Latitude: | 33.7613084 |
| Longitude: | -117.8346236 |
| Status: | Completed - Case Closed |
| Status Date: | 05/09/1991 |
| Case Worker: | KL |
| RB Case Number: | 083001094T |
| Local Agency: | ORANGE COUNTY LOP |
| File Location: | Local Agency |
| Local Case Number: | 88UT191 |
| Potential Media Affect: | Soil |
| Potential Contaminants of Concern: | Gasoline |
| Site History: | Not reported |

LUST:

| | |
|---|---|
| Global Id: | T0605900864 |
| Contact Type: | Local Agency Caseworker |
| Contact Name: | KEVIN LAMBERT |
| Organization Name: | ORANGE COUNTY LOP |
| Address: | 1241 E DYER ROAD SUITE 120 |
| City: | SANTA ANA |
| Email: | klambert@ochca.com |
| Phone Number: | 7144336261 |

| | |
|---|---|
| Global Id: | T0605900864 |
| Contact Type: | Regional Board Caseworker |
| Contact Name: | VALERIE JAHN-BULL |
| Organization Name: | SANTA ANA RWQCB (REGION 8) |
| Address: | 3737 MAIN STREET, SUITE 500 |
| City: | RIVERSIDE |
| Email: | valerie.jahn-bull@waterboards.ca.gov |
| Phone Number: | 9517824903 |

LUST:

| | |
|---|---|
| Global Id: | T0605900864 |
| Action Type: | Other |
| Date: | 11/23/1988 |
| Action: | Leak Reported |

| | |
|---|---|
| Global Id: | T0605900864 |
| Action Type: | Other |
| Date: | 11/23/1988 |
| Action: | Leak Discovery |

| | |
|---|---|
| Global Id: | T0605900864 |
| Action Type: | REMEDIATION |

**ARCO (Continued)** **S102424427**

| | |
|---|---|
| Date: | 06/07/1989 |
| Action: | Excavation |
| | |
| Global Id: | T0605900864 |
| Action Type: | ENFORCEMENT |
| Date: | 05/09/1991 |
| Action: | Closure/No Further Action Letter |
| | |
| Global Id: | T0605900864 |
| Action Type: | ENFORCEMENT |
| Date: | 11/02/2020 |
| Action: | Historic Files |

LUST:

| | |
|---|---|
| Global Id: | T0605900864 |
| Status: | Open - Case Begin Date |
| Status Date: | 11/23/1988 |
| | |
| Global Id: | T0605900864 |
| Status: | Completed - Case Closed |
| Status Date: | 05/09/1991 |

LUST REG 8:

| | |
|---|---|
| Name: | ARCO |
| Address: | 13972 TUSTIN |
| City: | SANTA ANA |
| Region: | 8 |
| County: | Orange |
| Regional Board: | Santa Ana Region |
| Facility Status: | Case Closed |
| Case Number: | 083001094T |
| Local Case Num: | 88UT191 |
| Case Type: | Soil only |
| Substance: | Gasoline |
| Qty Leaked: | 0 |
| Abate Method: | Not reported |
| Cross Street: | Not reported |
| Enf Type: | Not reported |
| Funding: | Not reported |
| How Discovered: | Tank Closure |
| How Stopped: | Close Tank |
| Leak Cause: | Unknown |
| Leak Source: | Unknown |
| Global ID: | T0605900864 |
| How Stopped Date: | 9/9/9999 |
| Enter Date: | Not reported |
| Date Confirmation of Leak Began: | Not reported |
| Date Preliminary Assessment Began: | Not reported |
| Discover Date: | 11/23/1988 |
| Enforcement Date: | Not reported |
| Close Date: | 5/9/1991 |
| Date Prelim Assessment Workplan Submitted: | Not reported |
| Date Pollution Characterization Began: | Not reported |
| Date Remediation Plan Submitted: | Not reported |
| Date Remedial Action Underway: | Not reported |

**ARCO (Continued)** **S102424427**

| | |
|---|---|
| Date Post Remedial Action Monitoring: | Not reported |
| Enter Date: | Not reported |
| GW Qualifies: | Not reported |
| Soil Qualifies: | Not reported |
| Operator: | Not reported |
| Facility Contact: | Not reported |
| Interim: | Not reported |
| Oversite Program: | LUST |
| Latitude: | 33.7613084 |
| Longitude: | -117.8346236 |
| MTBE Date: | Not reported |
| Max MTBE GW: | Not reported |
| MTBE Concentration: | 0 |
| Max MTBE Soil: | Not reported |
| MTBE Fuel: | 1 |
| MTBE Tested: | Site NOT Tested for MTBE.Includes Unknown and Not Analyzed. |
| MTBE Class: | * |
| Staff: | VJJ |
| Staff Initials: | AR |
| Lead Agency: | Local Agency |
| Local Agency: | 30000L |
| Hydr Basin #: | Not reported |
| Beneficial: | MUN |
| Priority: | Not reported |
| Cleanup Fund Id: | Not reported |
| Work Suspended: | Not reported |
| Summary: | Not reported |

CORTESE:

| | |
|---|---|
| Name: | ARCO |
| Address: | 13972 TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0605900864 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

HIST CORTESE:

edr_fname: ARCO #6042

**ARCO (Continued)** **S102424427**

edr_fadd1: 13972 TUSTIN
City,State,Zip: SANTA ANA, CA 90071
Region: CORTESE
Facility County Code: 30
Reg By: LTNKA
Reg Id: 083001094T

CERS:
Name: ARCO
Address: 13972 TUSTIN
City,State,Zip: SANTA ANA, CA 92701
Site ID: 206257
CERS ID: T0605900864
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: KEVIN LAMBERT - ORANGE COUNTY LOP
Entity Title: Not reported
Affiliation Address: 1241 E DYER ROAD SUITE 120
Affiliation City: SANTA ANA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 7144336261

Affiliation Type Desc: Regional Board Caseworker
Entity Name: VALERIE JAHN-BULL - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9517824903

---

**93** **FAIRHAVEN WELL 3** **PFAS** **S127519690**
**NE** **N/A**
**1/4-1/2** **ANAHEIM, CA**
**0.438 mi.**
**2312 ft.**

**Relative:**
**Higher**

**Actual:**
**221 ft.**

PFAS:
Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| | |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |
| | |
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| | |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |
| | |
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |

| | |
|---|---|
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |

| | |
|---|---|
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

| | |
|---|---|
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| | |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |
| | |
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |
| Global ID: | W0603010047 |
| Facility Region: | Not reported |
| Lead Agency: | Not reported |
| Case worker: | Not reported |
| Local Agency: | Not reported |
| Location Case Number: | Not reported |
| File Location: | Not reported |
| Potential Contaminants of Concern: | Not reported |
| Potential Media Affected: | Not reported |
| Site History: | Not reported |
| | |
| Begin Date: | Not reported |
| RB Case Number: | Not reported |
| source_type: | All PFAS Chemicals |
| Latitude: | 33.773 |
| Longitude: | -117.8322 |
| Geo Tracker URL: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047 |
| | |
| Name: | FAIRHAVEN WELL 3 |
| Address: | Not reported |
| City,State,Zip: | ANAHEIM, CA |
| Envirostor ID: | Not reported |
| Program Type: | Not reported |
| Status: | Not reported |
| Status Date: | Not reported |
| Enviroscreen Score: | Not reported |
| Site Code: | Not reported |

**FAIRHAVEN WELL 3 (Continued)** **S127519690**

Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

Name: FAIRHAVEN WELL 3
Address: Not reported
City,State,Zip: ANAHEIM, CA
Envirostor ID: Not reported
Program Type: Not reported
Status: Not reported
Status Date: Not reported
Enviroscreen Score: Not reported
Site Code: Not reported
Global ID: W0603010047
Facility Region: Not reported
Lead Agency: Not reported
Case worker: Not reported
Local Agency: Not reported
Location Case Number: Not reported
File Location: Not reported
Potential Contaminants of Concern: Not reported
Potential Media Affected: Not reported
Site History: Not reported

Begin Date: Not reported
RB Case Number: Not reported
source_type: All PFAS Chemicals
Latitude: 33.773
Longitude: -117.8322
Geo Tracker URL: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=W0603010047

---

**94**
**SSE**
**1/2-1**
**0.549 mi.**
**2898 ft.**

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA**
**NORTHEAST CORNER 17TH AND TUSTIN AVENUE**
**SANTA ANA, CA 92705**

**ENVIROSTOR** **S118466267**
**VCP** **N/A**

**Relative:**
**Lower**

**Actual:**
**174 ft.**

ENVIROSTOR:
Name: FORMER DRY CLEANER, SANTA ANA, CALIFORNIA
Address: NORTHEAST CORNER 17TH AND TUSTIN AVENUE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 60001948
Status: Active
Status Date: 11/18/2013

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

| | |
|---|---|
| Site Code: | 401659 |
| Site Type: | Voluntary Cleanup |
| Site Type Detailed: | Voluntary Cleanup |
| Acres: | 1.77 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | Farah Itani |
| Supervisor: | Emad Yemut |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Assembly: | 69 |
| Senate: | 34 |
| Special Program: | Voluntary Cleanup Program |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Responsible Party |
| Latitude: | 33.75961 |
| Longitude: | -117.8338 |
| APN: | 396-312-04, 396-312-05, 396-312-07, 396-312-08, 396-312-09 |
| Past Use: | DRY CLEANING |
| Potential COC: | Tetrachloroethylene (PCE Trichloroethylene (TCE |
| Confirmed COC: | Tetrachloroethylene (PCE Trichloroethylene (TCE |
| Potential Description: | SOIL, UE |
| Alias Name: | Former Dry Cleaner |
| Alias Type: | Alternate Name |
| Alias Name: | IN-N-OUT (NORTHEAST CORNER 17TH AND TUSTIN) |
| Alias Type: | Alternate Name |
| Alias Name: | 396-312-04 |
| Alias Type: | APN |
| Alias Name: | 396-312-05 |
| Alias Type: | APN |
| Alias Name: | 396-312-07 |
| Alias Type: | APN |
| Alias Name: | 396-312-08 |
| Alias Type: | APN |
| Alias Name: | 396-312-09 |
| Alias Type: | APN |
| Alias Name: | 401659 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60001948 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Technical Workplan |
| Completed Date: | 09/03/2020 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Technical Workplan |
| Completed Date: | 11/19/2020 |
| Comments: | Conditional approval letter of the INO VIMS Design has been sent to RP and activity has been completed. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Document Type: Technical Workplan
Completed Date: 12/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 04/15/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/13/2015
Comments: Completed Annual Estimate for FY 1415.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: FY 1617 Annual Oversight Cost Estimate completed and mailed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/13/2015
Comments: FY1516 Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/17/2018
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: DTSC PM conducted management over the fiscal year of 20/21.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/31/2018
Comments: FY 1819 Estimate: $$30,496

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/16/2017
Comments: completed.

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/01/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2020
Comments: Annual Oversight Cost Estimate Letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 05/18/2020
Comments: Letter was sent to proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/08/2021
Comments: DTSC provided a letter statement regarding the proposed remedy and any potential future needs of more remedial features.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/11/2016
Comments: Completed for Public Notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2017
Comments: Conditional Aprroval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/02/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Document Type: Site Characterization Workplan
Completed Date: 03/13/2014
Comments: DTSC approved the SSI Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/04/2016
Comments: Final Public Notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 11/18/2013
Comments: A Voluntary Cleanup Agreement was fully executed between DTSC and Proponet, John C. Hall, Trustee

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/25/2016
Comments: Signed NOE

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2023
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedy Constructed: Operating Properly & Successfully
Schedule Due Date: 02/15/2022
Schedule Revised Date: 05/17/2022
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 11/27/2021
Schedule Revised Date: Not reported

VCP:
Name: FORMER DRY CLEANER, SANTA ANA, CALIFORNIA
Address: NORTHEAST CORNER 17TH AND TUSTIN AVENUE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 60001948
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

| | |
|---|---|
| Site Mgmt. Req.: | NONE SPECIFIED |
| Acres: | 1.77 |
| National Priorities List: | NO |
| Cleanup Oversight Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Farah Itani |
| Supervisor: | Emad Yemut |
| Division Branch: | Southern California Schools & Brownfields Outreach |
| Site Code: | 401659 |
| Assembly: | 69 |
| Senate: | 34 |
| Special Programs Code: | Voluntary Cleanup Program |
| Status: | Active |
| Status Date: | 11/18/2013 |
| Restricted Use: | NO |
| Funding: | Responsible Party |
| Lat/Long: | 33.75961 / -117.8338 |
| APN: | 396-312-04, 396-312-05, 396-312-07, 396-312-08, 396-312-09 |
| Past Use: | DRY CLEANING |
| Potential COC: | 30022, 30027 |
| Confirmed COC: | 30022,30027 |
| Potential Description: | SOIL, UE |
| Alias Name: | Former Dry Cleaner |
| Alias Type: | Alternate Name |
| Alias Name: | IN-N-OUT (NORTHEAST CORNER 17TH AND TUSTIN) |
| Alias Type: | Alternate Name |
| Alias Name: | 396-312-04 |
| Alias Type: | APN |
| Alias Name: | 396-312-05 |
| Alias Type: | APN |
| Alias Name: | 396-312-07 |
| Alias Type: | APN |
| Alias Name: | 396-312-08 |
| Alias Type: | APN |
| Alias Name: | 396-312-09 |
| Alias Type: | APN |
| Alias Name: | 401659 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60001948 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Technical Workplan |
| Completed Date: | 09/03/2020 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Technical Workplan |
| Completed Date: | 11/19/2020 |
| Comments: | Conditional approval letter of the INO VIMS Design has been sent to RP and activity has been completed. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Document Type: Technical Workplan
Completed Date: 12/04/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation Report
Completed Date: 04/15/2021
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/13/2015
Comments: Completed Annual Estimate for FY 1415.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/16/2016
Comments: FY 1617 Annual Oversight Cost Estimate completed and mailed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 11/13/2015
Comments: FY1516 Cost Estimate completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/26/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 08/17/2018
Comments: Completed

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Project Management
Completed Date: 06/30/2021
Comments: DTSC PM conducted management over the fiscal year of 20/21.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 07/31/2018
Comments: FY 1819 Estimate: $$30,496

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 10/16/2017
Comments: completed.

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/01/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2020
Comments: Annual Oversight Cost Estimate Letter completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 05/18/2020
Comments: Letter was sent to proponent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/16/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/08/2021
Comments: DTSC provided a letter statement regarding the proposed remedy and any potential future needs of more remedial features.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 01/11/2016
Comments: Completed for Public Notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/30/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operation and Maintenance Report
Completed Date: 05/24/2017
Comments: Conditional Aprroval

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 10/02/2020
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

**FORMER DRY CLEANER, SANTA ANA, CALIFORNIA (Continued)** **S118466267**

Completed Document Type: Site Characterization Workplan
Completed Date: 03/13/2014
Comments: DTSC approved the SSI Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 06/17/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 01/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 01/04/2016
Comments: Final Public Notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 11/18/2013
Comments: A Voluntary Cleanup Agreement was fully executed between DTSC and Proponet, John C. Hall, Trustee

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 02/25/2016
Comments: Signed NOE

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: Removal Action Completion Report
Future Due Date: 2023
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Remedy Constructed: Operating Properly & Successfully
Schedule Due Date: 02/15/2022
Schedule Revised Date: 05/17/2022
Schedule Area Name: PROJECT WIDE
Schedule Sub Area Name: Not reported
Schedule Document Type: Removal Action Workplan
Schedule Due Date: 11/27/2021
Schedule Revised Date: Not reported

**95 SW 1/2-1 0.619 mi. 3266 ft.** | **AZTEC CLEANERS**
**1730 EAST 17TH STREET**
**SANTA ANA, CA 92701** | **ENVIROSTOR** | **S106797631**
**N/A**

**Relative: Lower**

**Actual: 169 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | AZTEC CLEANERS |
| Address: | 1730 EAST 17TH STREET |
| City,State,Zip: | SANTA ANA, CA 92701 |
| Facility ID: | 30720014 |
| Status: | Refer: 1248 Local Agency |
| Status Date: | 04/30/2001 |
| Site Code: | Not reported |
| Site Type: | Evaluation |
| Site Type Detailed: | Evaluation |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | Referred - Not Assigned |
| Division Branch: | Cleanup Cypress |
| Assembly: | 69 |
| Senate: | Not reported |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not Applicable |
| Latitude: | 33.75850 |
| Longitude: | -117.8424 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | 30720014 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | SB 1248 Notification |
| Completed Date: | 04/26/2001 |
| Comments: | SB 1248 Orange County |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

**96 SE 1/2-1 0.687 mi. 3627 ft.** | **TUSTIN'S FRENCH QUARTER SHOPPING CENTER**
**17301 17TH STREET**
**TUSTIN, CA 92780** | **ENVIROSTOR VCP** | **S110711849 N/A**

**Relative: Lower**

**Actual: 173 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | TUSTIN'S FRENCH QUARTER SHOPPING CENTER |
| Address: | 17301 17TH STREET |
| City,State,Zip: | TUSTIN, CA 92780 |
| Facility ID: | 60001388 |
| Status: | No Further Action |
| Status Date: | 10/31/2011 |
| Site Code: | 401555 |
| Site Type: | Voluntary Cleanup |
| Site Type Detailed: | Voluntary Cleanup |
| Acres: | 5.5 |
| NPL: | NO |
| Regulatory Agencies: | SMBRP |
| Lead Agency: | SMBRP |
| Program Manager: | S. Steven Hariri |
| Supervisor: | Ju-Tseng Liu |
| Division Branch: | Engineering & Special Projects |
| Assembly: | 68 |
| Senate: | 37 |
| Special Program: | Voluntary Cleanup Program |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Responsible Party |
| Latitude: | 33.75987 |
| Longitude: | -117.8287 |
| APN: | 395-142-05, 395-142-06, 395-142-07, 395-142-08, 395-142-09 |
| Past Use: | DRY CLEANING |
| Potential COC: | Tetrachloroethylene (PCE Trichloroethylene (TCE |
| Confirmed COC: | Tetrachloroethylene (PCE Trichloroethylene (TCE |
| Potential Description: | SV |
| Alias Name: | 395-142-05 |
| Alias Type: | APN |
| Alias Name: | 395-142-06 |
| Alias Type: | APN |
| Alias Name: | 395-142-07 |
| Alias Type: | APN |
| Alias Name: | 395-142-08 |
| Alias Type: | APN |
| Alias Name: | 395-142-09 |
| Alias Type: | APN |
| Alias Name: | 401555 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60001388 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 12/17/2010 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |

**TUSTIN'S FRENCH QUARTER SHOPPING CENTER (Continued)** **S110711849**

Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/16/2011
Comments: NFA letter issued.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/16/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 12/10/2010
Comments: Voluntary Cleanup Agreement fully executed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 10/31/2011
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

VCP:
Name: TUSTIN'S FRENCH QUARTER SHOPPING CENTER
Address: 17301 17TH STREET
City,State,Zip: TUSTIN, CA 92780
Facility ID: 60001388
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 5.5
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: S. Steven Hariri
Supervisor: Ju-Tseng Liu
Division Branch: Engineering & Special Projects
Site Code: 401555
Assembly: 68
Senate: 37
Special Programs Code: Voluntary Cleanup Program
Status: No Further Action
Status Date: 10/31/2011
Restricted Use: NO
Funding: Responsible Party
Lat/Long: 33.75987 / -117.8287

**TUSTIN'S FRENCH QUARTER SHOPPING CENTER (Continued)** **S110711849**

| | |
|---|---|
| APN: | 395-142-05, 395-142-06, 395-142-07, 395-142-08, 395-142-09 |
| Past Use: | DRY CLEANING |
| Potential COC: | 30022, 30027 |
| Confirmed COC: | 30022,30027 |
| Potential Description: | SV |
| Alias Name: | 395-142-05 |
| Alias Type: | APN |
| Alias Name: | 395-142-06 |
| Alias Type: | APN |
| Alias Name: | 395-142-07 |
| Alias Type: | APN |
| Alias Name: | 395-142-08 |
| Alias Type: | APN |
| Alias Name: | 395-142-09 |
| Alias Type: | APN |
| Alias Name: | 401555 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 60001388 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 12/17/2010 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 05/16/2011 |
| Comments: | NFA letter issued. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Inspections/Visit (Non LUR) |
| Completed Date: | 12/16/2010 |
| Comments: | Not reported |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Standard Voluntary Agreement |
| Completed Date: | 12/10/2010 |
| Comments: | Voluntary Cleanup Agreement fully executed. |
| | |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 10/31/2011 |
| Comments: | Not reported |
| | |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |

**TUSTIN'S FRENCH QUARTER SHOPPING CENTER (Continued)** **S110711849**

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

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**97**
**WSW**
**1/2-1**
**0.871 mi.**
**4599 ft.**

**CIRCUIT ONE (DIVISION OF LH RESEARCH)**
**2101 GRAND AVE**
**SANTA ANA, CA 92705**

**ENVIROSTOR** **S101481461**
**N/A**

**Relative:**
**Lower**

**Actual:**
**169 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | CIRCUIT ONE (DIVISION OF LH RESEARCH) |
| Address: | 2101 GRAND AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 30340300 |
| Status: | Refer: Other Agency |
| Status Date: | 08/07/1984 |
| Site Code: | Not reported |
| Site Type: | Historical |
| Site Type Detailed: | * Historical |
| Acres: | Not reported |
| NPL: | NO |
| Regulatory Agencies: | NONE SPECIFIED |
| Lead Agency: | NONE SPECIFIED |
| Program Manager: | Not reported |
| Supervisor: | * Mmonroy |
| Division Branch: | Cleanup Cypress |
| Assembly: | 69 |
| Senate: | 34 |
| Special Program: | * RCRA 3012 - Past Haz Waste Disp Inven Site |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not reported |
| Latitude: | 33.76381 |
| Longitude: | -117.8512 |
| APN: | NONE SPECIFIED |
| Past Use: | NONE SPECIFIED |
| Potential COC: | * ORGANIC LIQUIDS WITH METALS * ACID SOLUTION 2>PH WITH METALS * UNSPECIFIED SLUDGE WASTE * UNSPECIFIED SOLVENT MIXTURES * ALKALINE SOLUTION 2<PH<12.5, WITH METALS Lead |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | LH RESEARCH (CIRCUIT ONE DIVISION) |
| Alias Type: | Alternate Name |
| Alias Name: | CAD098502909 |
| Alias Type: | EPA Identification Number |
| Alias Name: | 30340300 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | * Discovery |
| Completed Date: | 10/12/1983 |
| Comments: | FACILITY IDENTIFIED ID FROM ERRIS |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Screening |

**CIRCUIT ONE (DIVISION OF LH RESEARCH) (Continued)** **S101481461**

| | |
|---|---|
| Completed Date: | 10/25/1994 |
| Comments: | DATABASE VALIDATION PROGRAM CONFIRMS NFA FOR DTSC. |
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Assessment Report |
| Completed Date: | 08/07/1984 |
| Comments: | FACILITY DRIVE-BY IN SMALL INDUST PARK. GOOD HOUSEKEEPING. DRUMS STACKED IN SMALL ENCLOSURE.NO PROB SUBMIT TO EPA PRELIM ASSESS DONE RCRA 3012 |
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

---

**98**
**WNW**
**1/2-1**
**0.884 mi.**
**4669 ft.**

**ACE CLEANERS**
**2525 NORTH GRAND AVENUE**
**SANTA ANA, CA 92705**

**ENVIROSTOR** **S106797624**
**N/A**

**Relative:**
**Lower**

**Actual:**
**182 ft.**

ENVIROSTOR:

| | |
|---|---|
| Name: | ACE CLEANERS |
| Address: | 2525 NORTH GRAND AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Facility ID: | 30720004 |
| Status: | Refer: 1248 Local Agency |
| Status Date: | 04/05/2004 |
| Site Code: | Not reported |
| Site Type: | Evaluation |
| Site Type Detailed: | Evaluation |
| Acres: | 0 |
| NPL: | NO |
| Regulatory Agencies: | ORANGE COUNTY |
| Lead Agency: | ORANGE COUNTY |
| Program Manager: | Not reported |
| Supervisor: | Referred - Not Assigned |
| Division Branch: | Cleanup Cypress |
| Assembly: | 69 |
| Senate: | 34 |
| Special Program: | Not reported |
| Restricted Use: | NO |
| Site Mgmt Req: | NONE SPECIFIED |
| Funding: | Not Applicable |
| Latitude: | 33.77089 |
| Longitude: | -117.8515 |
| APN: | 396-361-05 |
| Past Use: | NONE SPECIFIED |
| Potential COC: | NONE SPECIFIED |
| Confirmed COC: | NONE SPECIFIED |
| Potential Description: | NONE SPECIFIED |
| Alias Name: | 396-361-05 |

**ACE CLEANERS (Continued)** **S106797624**

Alias Type: APN
Alias Name: 30720004
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

---

**99**
**South**
**1/2-1**
**0.908 mi.**
**4796 ft.**

**Relative:**
**Lower**

**Actual:**
**162 ft.**

**WESTERN MEDICAL CTR (EIS USE)**
**1001 N TUSTIN**
**SANTA ANA, CA 92705**

**ENVIROSTOR** **1000403038**
**CERS HAZ WASTE** **N/A**
**SWEEPS UST**
**HIST UST**
**CA FID UST**
**CERS TANKS**
**EMI**
**HAZNET**
**CERS**
**HWTS**

ENVIROSTOR:
Name: WESTERN MEDICAL CENTER - SANTA ANA
Address: 1001 N. TUSTIN AVENUE
City,State,Zip: SANTA ANA, CA 92705
Facility ID: 71002574
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 69
Senate: 34
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 33.75312
Longitude: -117.8341
APN: NONE SPECIFIED

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD076061464
Alias Type: EPA Identification Number
Alias Name: 71002574
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Address: 1001 N TUSTIN AVE
City,State,Zip: SANTA ANA, CA 92705
Site ID: 413556
CERS ID: 10558528
CERS Description: Hazardous Waste Generator

SWEEPS UST:
Name: WESTERN MEDICAL CENTER
Address: 1001 N TUSTIN AVE
City: SANTA ANA
Status: Not reported
Comp Number: 218
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 30-020-000218-000001
Tank Status: Not reported
Capacity: 30000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 1

Name: WESTERN MEDICAL CENTER
Address: 1001 N TUSTIN AVE

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| City: | SANTA ANA |
| Status: | Active |
| Comp Number: | 218 |
| Number: | 1 |
| Board Of Equalization: | Not reported |
| Referral Date: | 02-28-92 |
| Action Date: | 02-28-92 |
| Created Date: | 07-31-88 |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 30-020-000218-000002 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 01-28-94 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | DIESEL |
| Number Of Tanks: | 1 |

HIST UST:

| | |
|---|---|
| Name: | WESTERN MEDICAL CENTER |
| Address: | 1001 N TUSTIN AVENUE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| File Number: | 0001F0FF |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F0FF.pdf |
| Region: | STATE |
| Facility ID: | 00000044278 |
| Facility Type: | Other |
| Other Type: | HOSPITAL |
| Contact Name: | WAYNE SCHROEDER |
| Telephone: | 7148353555 |
| Owner Name: | WESTERN MEDICAL CENTER |
| Owner Address: | 1001 N. TUSTIN AVENUE |
| Owner City,St,Zip: | SANTA ANA, CA 92705 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1972 |
| Tank Capacity: | 00030000 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | DIESEL |
| Container Construction Thickness: | 3/8 |
| Leak Detection: | Stock Inventor |

Click here for Geo Tracker PDF:

CA FID UST:

| | |
|---|---|
| Facility ID: | 30000334 |
| Regulated By: | UTNKA |
| Regulated ID: | 00044278 |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | 7148353555 |
| Mail To: | Not reported |
| Mailing Address: | 1001 N TUSTIN AVE |
| Mailing Address 2: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Mailing City,St,Zip: | SANTA ANA 92705 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |
| EPA ID: | Not reported |
| Comments: | Not reported |
| Status: | Active |

CERS TANKS:

| | |
|---|---|
| Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Address: | 1001 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 413556 |
| CERS ID: | 10558528 |
| CERS Description: | Underground Storage Tank |

EMI:

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR, UNIT 1 |
| Address: | 1001 N TUSTIN AV |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1987 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 4615 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 5 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1990 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 3 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR, UNIT 1 |
| Address: | 1001 N TUSTIN AV |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1990 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 4615 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0 |
| Reactive Organic Gases Tons/Yr: | 0 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1996 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 2 |
| Reactive Organic Gases Tons/Yr: | 1 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 1 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1997 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 10 |
| Reactive Organic Gases Tons/Yr: | 4 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1998 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 7 |
| Reactive Organic Gases Tons/Yr: | 3 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 1999 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 10 |
| Reactive Organic Gases Tons/Yr: | 4 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 2000 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Total Organic Hydrocarbon Gases Tons/Yr: | 10 |
| Reactive Organic Gases Tons/Yr: | 4 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Year: | 2001 |
| County Code: | 30 |
| Air Basin: | SC |
| Facility ID: | 800211 |
| Air District Name: | SC |
| SIC Code: | 8062 |
| Air District Name: | SOUTH COAST AQMD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 10 |
| Reactive Organic Gases Tons/Yr: | 4 |
| Carbon Monoxide Emissions Tons/Yr: | 1 |
| NOX - Oxides of Nitrogen Tons/Yr: | 2 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

HAZNET:

| | |
|---|---|
| Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Address: | 1001 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927053502 |
| Contact: | KYLE HOURANEY |
| Telephone: | 7149533500 |
| Mailing Name: | Not reported |
| Mailing Address: | 1001 N TUSTIN AVE |
| | |
| Year: | 2019 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | NED981723513 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.41050 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.58600 |
| | |
| Year: | 2019 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | CAD008364432 |
| CA Waste Code: | 331 - Off-specification, aged or surplus organics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.01450 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.73250 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | CAT080013352 |
| CA Waste Code: | 134 - Aqueous solution with total organic residues less than 10 percent |
| Disposal Method: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Tons: | 0.23100 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | CAD009007626 |
| CA Waste Code: | 151 - Asbestos containing waste |
| Disposal Method: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Tons: | 8.05000 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | NED981723513 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.86350 |
| | |
| Year: | 2018 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | - |
| Tons: | 0.12250 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.7665 |
| | |
| Year: | 2017 |
| Gepaid: | CAL000316673 |
| TSD EPA ID: | UTD981552177 |
| CA Waste Code: | 551 - Laboratory waste chemicals |
| Disposal Method: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Tons: | 0.13 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Click this hyperlink while viewing on your computer to access
51 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20171221 |
| Creation Date: | 10/27/2018 18:30:26 |
| Receipt Date: | 20180105 |
| Manifest ID: | 018247373JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEANHARBORS ENV SERVICES |
| TSDF EPA ID: | UTD981552177 |
| Trans Name: | CLEAN HARBORS ARAGONITE LLC |
| TSDF Alt EPA ID: | NED981723513 |
| TSDF Alt Name: | CLEAN HARBORS KIMBALL |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.1325 |
| Waste Quantity: | 265 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20171221 |
| Creation Date: | 8/7/2018 18:30:34 |
| Receipt Date: | 20171228 |
| Manifest ID: | 018247372JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008364432 |
| Trans Name: | RHO-CHEM LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | P016 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0055 |
| Waste Quantity: | 11 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20171114 |
| Creation Date: | 6/13/2018 18:31:23 |
| Receipt Date: | 20171115 |
| Manifest ID: | 017497121JJK |
| Trans EPA ID: | CAR000031211 |
| Trans Name: | CALIFORNIA HAZARDOUS SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D001 |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.021 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20171103 |
| Creation Date: | 10/16/2018 18:30:37 |
| Receipt Date: | 20171113 |
| Manifest ID: | 013289394JJK |
| Trans EPA ID: | CAL000190758 |
| Trans Name: | JANUS CORPORATION |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.0015 |
| Waste Quantity: | 3 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20171017 |
| Creation Date: | 10/9/2018 18:30:56 |
| Receipt Date: | 20171023 |
| Manifest ID: | 017400968JJK |
| Trans EPA ID: | MNS000110924 |
| Trans Name: | STERICYCLE SPECIALTY WASTE SOLUTIONS INC (LA) |
| Trans 2 EPA ID: | MAD039322250 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | CLEAN HARBORS ENV SERVICES |
| TSDF EPA ID: | UTD981552177 |
| Trans Name: | CLEAN HARBORS ARAGONITE LLC |
| TSDF Alt EPA ID: | NED981723513 |
| TSDF Alt Name: | CLEAN HARBORS KIMBALL |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.273 |
| Waste Quantity: | 546 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20171011 |
| Creation Date: | 10/16/2018 18:30:28 |
| Receipt Date: | 20171019 |
| Manifest ID: | 013289392JJK |
| Trans EPA ID: | CAL000190758 |
| Trans Name: | JANUS CORPORATION |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20171004 |
| Creation Date: | 6/13/2018 18:31:10 |
| Receipt Date: | 20171013 |
| Manifest ID: | 017497037JJK |
| Trans EPA ID: | CAR000031211 |
| Trans Name: | CALIFORNIA HAZARDOUS SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D001 |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170915 |
| Creation Date: | 9/29/2018 18:30:10 |
| Receipt Date: | 20171004 |
| Manifest ID: | 014810500JJK |
| Trans EPA ID: | CAL000190758 |
| Trans Name: | JANUS CORPORATION |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D008 |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170825 |
| Creation Date: | 10/5/2018 18:30:23 |
| Receipt Date: | 20170907 |
| Manifest ID: | 014810486JJK |
| Trans EPA ID: | CAL000190758 |
| Trans Name: | JANUS CORPORATION |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D008 |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20170718 |
| Creation Date: | 9/28/2018 18:30:17 |
| Receipt Date: | 20170802 |
| Manifest ID: | 014810459JJK |
| Trans EPA ID: | CAL000190758 |
| Trans Name: | JANUS CORPORATION |
| Trans 2 EPA ID: | CAR000049064 |
| Trans 2 Name: | ECTI |
| TSDF EPA ID: | NVT330010000 |
| Trans Name: | US ECOLOGY |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D008 |
| Meth Code: | H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill( To Include On-Site Treatment And/Or Stabilization) |
| Quantity Tons: | 0.02 |
| Waste Quantity: | 40 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2011 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20110913 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110915 |
| Manifest ID: | 005728839JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.152 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20110913 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110915 |
| Manifest ID: | 005728839JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110913 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110915 |
| Manifest ID: | 005728839JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.33 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20110913 |
| Creation Date: | 11/12/2011 18:30:11 |
| Receipt Date: | 20110915 |
| Manifest ID: | 005728839JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110815 |
| Creation Date: | 10/19/2011 18:30:31 |
| Receipt Date: | 20110816 |
| Manifest ID: | 008368195JJK |
| Trans EPA ID: | CAR000209023 |
| Trans Name: | CALIFORNIA HAZARDOUS SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.152 |
| Waste Quantity: | 40 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110404 |
| Creation Date: | 8/15/2012 16:24:28 |
| Receipt Date: | 20110406 |
| Manifest ID: | 007299737JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110404 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007299737JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110404 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 007299737JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110404 |
| Creation Date: | 8/15/2012 16:24:28 |
| Receipt Date: | 20110406 |
| Manifest ID: | 007299737JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20110404 |
| Creation Date: | 8/15/2012 16:24:28 |
| Receipt Date: | 20110406 |
| Manifest ID: | 007299737JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.38 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2009 |
| Gen EPA ID: | CAL000316673 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20090918 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 002347328JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20090918 |
| Creation Date: | 12/30/2010 9:08:42 |
| Receipt Date: | 20090923 |
| Manifest ID: | 002347328JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.038 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20090918 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 002347328JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090918 |
| Creation Date: | 12/30/2010 9:08:42 |
| Receipt Date: | 20090923 |
| Manifest ID: | 002347328JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.5445 |
| Waste Quantity: | 165 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 725 - Liquids with mercury > 20 mg/l |
| RCRA Code: | D009 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.125 |
| Waste Quantity: | 250 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D008 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20090508 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005361758JJK |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | 8/15/2012 16:22:33 |
| Receipt Date: | 20080730 |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.495 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | 8/15/2012 16:22:33 |
| Receipt Date: | 20080730 |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.209 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | 8/15/2012 16:22:33 |
| Receipt Date: | 20080730 |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 725 - Liquids with mercury > 20 mg/l |
| RCRA Code: | D009 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02 |
| Waste Quantity: | 40 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D007 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | D002 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | 8/15/2012 16:22:51 |
| Receipt Date: | 20080729 |
| Manifest ID: | 004100053JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD008302903 |
| Trans Name: | VEOLIA ES TECHNICAL SOLUTIONS LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 214 - Unspecified solvent mixture |
| RCRA Code: | F003 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.036 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20080721 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20080721 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20080721 |
| Creation Date: | 8/15/2012 16:22:33 |
| Receipt Date: | 20080730 |
| Manifest ID: | 004100011JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.099 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2007 |
| Gen EPA ID: | CAL000316673 |

| | |
|---|---|
| Shipment Date: | 20071207 |
| Creation Date: | 3/5/2008 18:30:14 |
| Receipt Date: | 20071212 |
| Manifest ID: | 004099893JJK |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.297 |
| Waste Quantity: | 90 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070727 |
| Creation Date: | 1/8/2008 18:30:16 |
| Receipt Date: | 20070801 |
| Manifest ID: | 002378064JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.33 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070727 |
| Creation Date: | 1/8/2008 18:30:16 |
| Receipt Date: | 20070801 |
| Manifest ID: | 002378064JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.015 |
| Waste Quantity: | 30 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070308 |
| Creation Date: | 9/20/2007 18:30:30 |
| Receipt Date: | 20070314 |
| Manifest ID: | 002129205JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.019 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070308 |
| Creation Date: | 9/20/2007 18:30:30 |
| Receipt Date: | 20070314 |
| Manifest ID: | 002129205JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | D008 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070308 |
| Creation Date: | 9/20/2007 18:30:30 |
| Receipt Date: | 20070314 |
| Manifest ID: | 002129205JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20070308 |
| Creation Date: | 9/20/2007 18:30:30 |
| Receipt Date: | 20070314 |
| Manifest ID: | 002129205JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.33 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2015 |
| Gen EPA ID: | CAL000316673 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20151120 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151213 |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20151120 |
| Creation Date: | 1/21/2016 22:16:16 |
| Receipt Date: | 20151124 |
| Manifest ID: | 015033003JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20151120 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | 1/21/2016 22:16:16 |
| Receipt Date: | 20151124 |
| Manifest ID: | 015033003JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.00417 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151213 |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151103 |
| Creation Date: | 1/11/2016 22:16:27 |
| Receipt Date: | 20151106 |
| Manifest ID: | 015033708JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.038 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20151103 |
| Creation Date: | 1/11/2016 22:16:27 |
| Receipt Date: | 20151106 |
| Manifest ID: | 015033708JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0275 |
| Waste Quantity: | 55 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20151103 |
| Creation Date: | 5/12/2016 9:59:35 |
| Receipt Date: | 20151201 |
| Manifest ID: | 015033711JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 1.4178 |
| Waste Quantity: | 340 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20150727 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150729 |
| Manifest ID: | 014580177JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.187 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2013 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | 4/7/2014 22:15:09 |
| Receipt Date: | 20140103 |
| Manifest ID: | 012157409JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | 4/7/2014 22:15:09 |
| Receipt Date: | 20140103 |
| Manifest ID: | 012157409JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0125 |
| Waste Quantity: | 25 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | 4/7/2014 22:15:09 |
| Receipt Date: | 20140103 |
| Manifest ID: | 012157409JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | 7/3/2014 22:15:07 |
| Receipt Date: | 20140210 |
| Manifest ID: | 011439771JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | NJD986607380 |
| Trans 2 Name: | MAUMEE EXPRESS INC |
| TSDF EPA ID: | MOD981123391 |
| Trans Name: | HAZMAT INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | 4/7/2014 22:15:09 |
| Receipt Date: | 20140103 |
| Manifest ID: | 012157409JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.374 |
| Waste Quantity: | 110 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20131231 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 012157409JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0033 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20130520 |
| Creation Date: | 7/28/2013 22:15:09 |
| Receipt Date: | 20130522 |
| Manifest ID: | 011439546JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 513 - Empty containers less than 30 gallons |
| RCRA Code: | Not reported |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.025 |
| Waste Quantity: | 50 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130520 |
| Creation Date: | 7/28/2013 22:15:09 |
| Receipt Date: | 20130522 |
| Manifest ID: | 011439555JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1251 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20130520 |
| Creation Date: | 7/28/2013 22:15:09 |
| Receipt Date: | 20130522 |
| Manifest ID: | 011439555JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.1375 |
| Waste Quantity: | 275 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20130520 |
| Creation Date: | 8/6/2013 22:15:08 |
| Receipt Date: | 20130528 |
| Manifest ID: | 011134215JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS ENV SVS |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS WILMINGTON LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2010 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20100909 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005726761JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.025 |
| Waste Quantity: | 50 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100909 |
| Creation Date: | 8/15/2012 16:23:25 |
| Receipt Date: | 20100915 |
| Manifest ID: | 005726761JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.15 |
| Waste Quantity: | 300 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100909 |
| Creation Date: | 8/15/2012 16:23:25 |
| Receipt Date: | 20100915 |
| Manifest ID: | 005726761JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H061 - Fuel Blending Prior To Energy Recovery At Another Site |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100909 |
| Creation Date: | 8/15/2012 16:23:25 |
| Receipt Date: | 20100915 |
| Manifest ID: | 005726761JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.114 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100909 |
| Creation Date: | 8/15/2012 16:23:25 |
| Receipt Date: | 20100915 |
| Manifest ID: | 005726761JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.495 |
| Waste Quantity: | 150 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20100401 |
| Creation Date: | 8/15/2012 16:24:00 |
| Receipt Date: | 20100407 |
| Manifest ID: | 005728133JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.005 |
| Waste Quantity: | 10 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20100401 |
| Creation Date: | 8/15/2012 16:24:00 |
| Receipt Date: | 20100407 |
| Manifest ID: | 005728133JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02 |
| Waste Quantity: | 40 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20100401 |
| Creation Date: | 8/15/2012 16:24:00 |
| Receipt Date: | 20100407 |
| Manifest ID: | 005728133JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100401 |
| Creation Date: | 8/15/2012 16:24:00 |
| Receipt Date: | 20100407 |
| Manifest ID: | 005728133JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.33 |
| Waste Quantity: | 100 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20100401 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 005728133JJK |
| Trans EPA ID: | CAD982030173 |
| Trans Name: | ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 725 - Liquids with mercury > 20 mg/l |
| RCRA Code: | D009 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2012 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20121130 |
| Creation Date: | 2/14/2013 22:15:16 |
| Receipt Date: | 20121203 |
| Manifest ID: | 008408981JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121130 |
| Creation Date: | 2/18/2013 22:15:20 |
| Receipt Date: | 20121217 |
| Manifest ID: | 010615147JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS ENV SVS |
| TSDF EPA ID: | CAD044429835 |
| Trans Name: | CLEAN HARBORS WILMINGTON LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | D001 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0066 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Waste Quantity: | 2 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121130 |
| Creation Date: | 2/14/2013 22:15:16 |
| Receipt Date: | 20121203 |
| Manifest ID: | 008408981JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20121130 |
| Creation Date: | 2/14/2013 22:15:16 |
| Receipt Date: | 20121203 |
| Manifest ID: | 008408981JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.01 |
| Waste Quantity: | 20 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Shipment Date: | 20121130 |
| Creation Date: | 2/14/2013 22:15:16 |
| Receipt Date: | 20121203 |
| Manifest ID: | 008408981JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.019 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20120611 |
| Creation Date: | 8/7/2012 22:15:26 |
| Receipt Date: | 20120612 |
| Manifest ID: | 010210598JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0275 |
| Waste Quantity: | 55 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20120611 |
| Creation Date: | 8/7/2012 22:15:22 |
| Receipt Date: | 20120613 |
| Manifest ID: | 010210600JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.02085 |
| Waste Quantity: | 5 |
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120611 |
| Creation Date: | 8/7/2012 22:15:26 |
| Receipt Date: | 20120612 |
| Manifest ID: | 010210598JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 331 - Off-specification, aged, or surplus organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.099 |
| Waste Quantity: | 30 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120611 |
| Creation Date: | 8/7/2012 22:15:22 |
| Receipt Date: | 20120613 |
| Manifest ID: | 010210599JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0075 |
| Waste Quantity: | 15 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20120611 |
| Creation Date: | 8/7/2012 22:15:22 |
| Receipt Date: | 20120613 |
| Manifest ID: | 010210599JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D011 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0025 |
| Waste Quantity: | 5 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

Additional Info:

| | |
|---|---|
| Year: | 2016 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151213 |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |
| Creation Date: | 1/21/2016 22:16:16 |
| Receipt Date: | 20151124 |
| Manifest ID: | 015033003JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.001 |
| Waste Quantity: | 2 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151120 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Creation Date: | 1/21/2016 22:16:16 |
| Receipt Date: | 20151124 |
| Manifest ID: | 015033003JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20151120 |
| Creation Date: | 9/29/2016 18:33:11 |
| Receipt Date: | 20151213 |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D002 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20151120 |
| Creation Date: | Not reported |
| Receipt Date: | Not reported |
| Manifest ID: | 015033852JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | Not reported |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 0.00417 |
| Waste Quantity: | 1 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151103 |
| Creation Date: | 5/12/2016 9:59:35 |
| Receipt Date: | 20151201 |
| Manifest ID: | 015033711JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | MAD039322250 |
| Trans 2 Name: | CLEAN HARBORS |
| TSDF EPA ID: | ARD069748192 |
| Trans Name: | CLEAN HARBORS EL DORADO LLC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 551 - Laboratory waste chemicals 561 Detergent and soap |
| RCRA Code: | D001 |
| Meth Code: | H040 - Incineration--Thermal Destruction Other Than Use As A Fuel |
| Quantity Tons: | 1.4178 |
| Waste Quantity: | 340 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151103 |
| Creation Date: | 1/11/2016 22:16:27 |
| Receipt Date: | 20151106 |
| Manifest ID: | 015033708JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.038 |
| Waste Quantity: | 10 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20151103 |
| Creation Date: | 1/11/2016 22:16:27 |
| Receipt Date: | 20151106 |
| Manifest ID: | 015033708JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0275 |
| Waste Quantity: | 55 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20150727 |
| Creation Date: | 10/1/2015 22:15:21 |
| Receipt Date: | 20150729 |
| Manifest ID: | 014580177JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.025 |
| Waste Quantity: | 50 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Additional Info:

| | |
|---|---|
| Year: | 2014 |
| Gen EPA ID: | CAL000316673 |
| | |
| Shipment Date: | 20141215 |
| Creation Date: | 3/6/2015 22:15:05 |
| Receipt Date: | 20141217 |
| Manifest ID: | 013482056JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.03 |
| Waste Quantity: | 60 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20141215 |
| Creation Date: | 3/6/2015 22:15:05 |
| Receipt Date: | 20141217 |
| Manifest ID: | 013482056JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 221 - Waste oil and mixed oil |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.057 |
| Waste Quantity: | 15 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140811 |
| Creation Date: | 9/30/2014 22:15:08 |
| Receipt Date: | 20140812 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Manifest ID: | 013481512JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0125 |
| Waste Quantity: | 25 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140811 |
| Creation Date: | 9/30/2014 22:15:08 |
| Receipt Date: | 20140812 |
| Manifest ID: | 013481512JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 343 - Unspecified organic liquid mixture |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.255 |
| Waste Quantity: | 75 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| | |
| Shipment Date: | 20140616 |
| Creation Date: | 8/26/2014 22:15:12 |
| Receipt Date: | 20140625 |
| Manifest ID: | 012769065JJK |
| Trans EPA ID: | CAR000209023 |
| Trans Name: | CALIFORNIA HAZARDOUS SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAT080013352 |
| Trans Name: | DEMENNO KERDOON |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 134 - Aqueous solution with <10% total organic residues |
| RCRA Code: | D001 |
| Meth Code: | H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect |
| Quantity Tons: | 0.231 |
| Waste Quantity: | 55 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |
| Shipment Date: | 20140508 |
| Creation Date: | 7/12/2014 22:15:07 |
| Receipt Date: | 20140509 |
| Manifest ID: | 012428034JJK |
| Trans EPA ID: | CAR000172460 |
| Trans Name: | ENVIRONMENTAL LOGISTICS INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD982444481 |
| Trans Name: | FILTER RECYCLING SERVICES INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 223 - Unspecified oil-containing waste |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.0417 |
| Waste Quantity: | 10 |
| Quantity Unit: | G |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

CERS:

| | |
|---|---|
| Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Address: | 1001 N TUSTIN AVE |
| City,State,Zip: | SANTA ANA, CA 92705 |
| Site ID: | 413556 |
| CERS ID: | 10558528 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 413556 |
| Site Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Violation Date: | 01-13-2021 |
| Citation: | 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e) |
| Violation Description: | For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 01/13/2021. The Designated Operator (DO) inspection reports from the previous 12 months (1/27/2020 - 12/30/2020) had inaccurate test dates for the last overfill prevention test. Reports indicated a test date of 12/20/2018, however correct test date was 12/5/2018. The DO inspection reports were amended by the DOs at the time of inspection. The violation was corrected.

Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 12-05-2018
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)

Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: Returned to compliance on 12/05/2018. Overfill prevention equipment testing was required to be completed by 10/13/2018 and must be re-tested every three years thereafter. Testing was completed on this date. Violation has been corrected.

Violation Division: Orange County Environmental Health
Violation Program: UST

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-17-2019
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 01/17/2019. CFR Form in CERS expired on 09/07/2018. Current CFR form was uploaded to CERS during inspection. Violation corrected on site.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-13-2021
Citation: HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4)
Violation Description: Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years.
Violation Notes: Returned to compliance on 02/05/2021. Employee training records were not available for review at the time of the inspection. All employees are required to be trained annually; new employees are required to be trained within 6 months. Provide employee training that covers safety procedures in the event of a release or threatened release of a hazardous material and/or the Emergency Response Plan. Submit training records to this agency within 30 days with the following information documented: - Topic of training - Date of training - Employee name - Employee signature
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 12-28-2016
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 01/10/2017. Several containers of hazardous waste and universal wastes are missing the accumulation start dates. Add the start dates to the containers when waste is first added.
Violation Division: Orange County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Violation Date: | 12-19-2013 |
| Citation: | 19 CCR 4 2729.2(a)(3) - California Code of Regulations, Title 19, Chapter 4, Section(s) 2729.2(a)(3) |
| Violation Description: | Failure to complete and/or submit an annotated site map if required by CUPA. |
| Violation Notes: | Returned to compliance on 07/09/2015. The following items were missing on the electronically submitted site map: Failure to label map with Business Name and Address Failure to label or identify hazardous materials storage areas Failure to identify location of building exits Failure to identify multiple stories of building |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 413556 |
| Site Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Violation Date: | 02-17-2015 |
| Citation: | HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e) |
| Violation Description: | Failure to maintain secondary containment, as evidenced by failure of secondary containment testing. |
| Violation Notes: | Returned to compliance on 03/04/2015. The results of the SB989 test indicate the piping sump failed. Have the sump repaired and retested and submit the results to this agency. Submit plans to this agency if required for the repairs. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 413556 |
| Site Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Violation Date: | 01-13-2021 |
| Citation: | HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34 |
| Violation Description: | Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance. |
| Violation Notes: | Returned to compliance on 02/05/2021. The Certification of Financial Responsibility (CFR) in CERS is expired; form is dated 9/20/2019. The business uploaded the updated CFR form in CERS at the time of inspection. Please submit the UST section via CERS within 30 days. |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 413556 |
| Site Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Violation Date: | 12-19-2013 |
| Citation: | HSC 6.95 25504(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25504(a) |
| Violation Description: | Failure to complete and/or submit hazardous material inventory forms for all reportable hazardous materials on site. |
| Violation Notes: | Returned to compliance on 07/09/2015. Elements of the chemical descriptions within the electronically submitted BEP are missing (e.g. Size of Largest Container, Average Daily Amount, etc.). Update the chemical information required on the forms |
| Violation Division: | Orange County Environmental Health |
| Violation Program: | HMRRP |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-13-2021
Citation: 23 CCR 16 2715(a)(1)(B) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(1)(B)
Violation Description: Failure to submit the G Designated Underground Storage Tank Operator Identification FormG within 30 days of installing a UST system or within 30 days of a change in DO.
Violation Notes: Returned to compliance on 02/05/2021. The facility has changed Designated Operator (DO) and has not submitted an updated Designated UST Operator Identification Form via CERS. Please submit an updated Designated UST Operator Identification Form via CERS within 30 days.
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-13-2021
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 02/05/2021. The following hazardous materials are stored on site at or above reportable quantities and have not been reported in CERS: - Oxygen Gas (stored in various cylinders, largest cylinder is 251 cubic feet; approximate total of 6,211 cubic feet) - Carbon Dioxide (stored in various cylinders, largest container is 437 cubic feet; approximate total of 5,681 cubic feet) - Nitrogen (28 x 230 cubic foot cylinders; approximate total of 6,440 cubic feet) - Nitrous Oxide (16 x 489 cubic foot cylinders; approximate total of 7,824 cubic feet) - Compressed Air (13 x 236 cubic foot cylinders; approximate total of 3,068 cubic feet) - Propane (2 x 7 gallon cylinders; total of 14 gallons) Update and resubmit the Hazardous Material Inventory in CERS within 30 days to include the above hazardous materials.
Violation Division: Orange County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-19-2017
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 02/14/2017. UPC forms completed on the CERS portal are not accurate. Refer to the CERS portal for regulator

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

comments and make the necessary corrections that have been requested. Correct the violation within 30 days.

Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 413556
Site Name: ORANGE COUNTY GLOBAL MEDICAL CENTER
Violation Date: 01-26-2021
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 02/05/2021. The OPW Flapper located in the Diesel fill sump failed testing on 1/13/2021. Repair or replace the failed component and retest within 30 days. Prior to conducting repairs, the facility must determine whether a plan check submittal is required. Plan check fees and the Facility Modification Application can be found at www.occupainfo.com
Violation Division: Orange County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-17-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a hazardous materials inspection. Consent to enter and inspect granted by Robert Kessler. Observed the following qualifying hazardous materials: - 55 gallon container of corrosive liquid used for the cooling towers (chemical needs to be added to HM Disclosure in Portal) - One 525 gallon liquid oxygen tank (volume needs to be added to HM Disclosure form in Portal) - One liquid oxygen tank (volume unknown and needs to be added to HM Disclosure in Portal) - One

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | underground diesel tank for back-up generators (volume needs to be added to HM Disclosure form in Portal) Annual Hazardous Materials DOT training records for employees are current and available for review. The Business Emergency Plan is on site. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-18-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed submission package on eSubmit Portal, DECLINED. Request for re-submittal this date. Please Check box UST Tank VI Fill Components Installed : Containment Sump Monitoring Plan please: Check box V 1 Continuous Monitoring of pipe... and Secondary Containment is a: DRY; & Panel Mfg and Model, Leak Sensor: 205 Check box V 5 Visual Pipe Monitoring--Min monthly and each time system operated. For questions please contact Alvin Dong, adong@ochca.com 714 640 9358 |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 05-10-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-12-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received email from Lorna Freeman for South Coast Global Medical who informed this Agency the Integrated Healthcare Holdings will be changing to KPC Health Care Inc and the DBA will change toOrange County Global Medical Center. Emailed Lorna Medical Waste Registration Forms for update of all 4 hospitals. Emailed HCA/Hendron and HCA/Nofal with new information. CUPA programs will need to be updated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-12-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received email from Lorna Freeman for South Coast Global Medical who informed this Agency the Integrated Healthcare Holdings will be changing to KPC Health Care Inc and the DBA will change toOrange County Global Medical Center. Emailed Lorna Medical Waste Registration Forms for update of all 4 hospitals. Emailed HCA/Hendron and HCA/Nofal with new information. CUPA programs will need to be updated. |
| Eval Division: | Orange County Environmental Health |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-18-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This Agency received a monitoring system certification dated 1/24/2014 for the Veeder-Root TLS 300-C1 monitoring system. The following equipment was certified to have been inspected/serviced in accordance with manufacturer's guidelines and was operational per manufacturer's specifications: in-tank gauging probes; annular space sensors; piping sump sensors; fill sump sensors; and, tank overfill/high level sensors. Also included was a spill bucket testing report form dated 1/24/2014 with results G PASS.G |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-10-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This agency received and reviewed the monitor certification and spill bucket tests dated 1/19/17. Section D of the report needs correction regarding pressurized piping systems. Please indicate "N/A" as this system uses suction piping. Also un-check all boxes in this area that do not apply. Make the necessary corrections and re-submit the report to this agency. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-16-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Print HM forms and review for inspection. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-12-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Received email from Lorna Freeman for South Coast Global Medical who informed this Agency the Integrated Healthcare Holdings will be changing to KPC Health Care Inc and the DBA will change toOrange County Global Medical Center. Emailed Lorna Medical Waste Registration Forms for update of all 4 hospitals. Emailed HCA/Hendron and HCA/Nofal with new information. CUPA programs will need to be updated. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Eval Date: 06-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ORANGE COUNTY GLOBAL MEDICAL CENTER New Corporation Change or Ownership: KPC HEALTHCARE, INC.
Eval Division: Orange County Environmental Health
Eval Program: HWRecycler
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ORANGE COUNTY GLOBAL MEDICAL CENTER New Corporation Change or Ownership: KPC HEALTHCARE, INC.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-15-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: I reviewed the CFR form submitted on our Agencys e-Submit portal and the form was Accepted. Coverage period is from 9/06/2013 to 9/06/2014.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-29-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: UST documents conditionally accepted in eSubmit Portal The following documents were received: UST Facility Page UST Tank Pages, 1 tank (D) Monitoring Plan Leak Response Plan Facility Diagram Monitoring system certification dated 1/22/16 Secondary containment test report dated 1/23/15 Certification of Financial Responsibility documents dated 1/19/16 Certification of Financial Responsibility documents for the coverage period of 1/19/16-1/19/17 Your UST submittal has been conditionally excepted to facilitate data transfer to the California Environmental Reporting System (CERS). Please corrected the following items once your data has been transferred to CERS. Monitoring Plan Section V G Please include the manufacturer of the leak sensor and put the model # in the right box. Any questions, please feel free to contact me at minh.le@ochca.com or 714-720-1327. Thank you. Minh Le.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-08-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received email from Ron Kress regarding his HMBEP submittal which he is working on correcting. Instructed Ron that the E-submit site has been closed down and he will not be able to make any changes to his

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | information. HMBEP status is being changed in order to facilitate the movement of his data to CERS. All corrections previously noted will still be needed. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 09-23-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Declined: UST Denied. Reviewed UST submission package on eSubmit Portal. Insufficient information for all elements. Submission DENIED. Request for re-submittal. Organized file, purged expired documents. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-19-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On this date the Recycling Unit in the Histology Department was reviewed. Currently only formalin waste is recycled at this facility - alcohol and xylene are no longer processed. A review of the current year's log shows that the maximum volume recycled was 32 liters of waste formalin. Facilities that recycle over 100 kg of waste are required to file a Hazardous Waste Recycler form each even numbered year. If this facility begins to recycle more than the 100 kg limit, contact me for more information of filing the form. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HWRecycler |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-19-2013 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | A routine hazardous materials inspection of this facility was conducted today. Access to the facility was provided by Obie Graves, EVS Director, and Joe Brothman, Safety and Emergency Management. The following Departments were visited: - Medical Waste Final Storage Area - OC Burn Unit - Observation Unit - 6th Fl Med Surg - 4th Fl Med Surg - Labor/Deliver - NICU - C-Section OR - OR - ICU - CCU - Main Lab - Histology - Blood Unit - Microbiology - ER - Pharmacy. Note that this facility no longer provides Oncology Services - Chemo waste is not generated at this facility. - Morgue - Hazardous Waste Storage Area Training documents and the Business Emergency Plan (BEP) were reviewed. The current BEP lists diesel, Oxygen, and xylene as part of the hazardous material disclosure. Although most chemical amounts are below the normal thresholds of 55 gallons, 500 pounds, or 200 cubic feet (or else otherwise excluded), review the list of Extremely Hazardous [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-23-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for a monitor certification and routine inspection. This site has 1 double walled diesel tank with double walled suction piping for a back-up generator. The annular sensor, piping sump sensor, and fill sump sensor activate alarms on the Veeder Root monitor. Verified a flapper valve for overfill prevention. The spill bucket was visually tested and passed. All technician certifications verified today. The following documents are available for review: - Monthly designated operator inspection reports with alarm history - Annual employee training records are current - Monitor certification dated 1/24/14 - SB989 test results dated 1/30/12 - Spill bucket test dated 1/24/14 - Work orders, service tickets UPC forms have been submitted on the E-Submit Portal. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-05-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: The following documents have been received and reviewed by this agency: -Monitor System Certification dated 01/17/2018 -Secondary Containment Testing dated 01/17/2018 All components regulated by this agency passed testing. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-24-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | CFR for the coverage period of 9/6/15-9/6/16 accepted in portal. Note to own/op: Please maintain insurance documents on site and make them available for review during inspections. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-16-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This agency received and reviewed the SB989 retest results for the piping sump on the underground tank dated 3/4/15. The results indicate the sump was repaired, retested and passed. Violation I382 abated. No outstanding violations. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-26-2014 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed contents of UST file from Santa Ana Fire Department and first removed all documents associated with remediation of a leaking UST; these will be given to our AgencyG s LOP program for review. The remaining documents were reviewed, sorted, and filed in our AgencyG s UST file. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-12-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This agency received and reviewed the revised monitor certification dated 1/19/17 with the requested corrections. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-17-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for a recycling inspection. Consent to enter and inspect granted by Robert Kessler. Observed the Histology Department. Formalin waste continues to be recycled at this lab. A recycling log is maintained and appears that less than 100 kg of formalin is recycled per year. If formalin recycling exceeds 100kg per month then a Hazardous Waste Recycling form must be completed every 2 years. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HWRecycler |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 04-17-2015 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for a routine hazardous waste inspection. Consent to enter and inspect granted by Robert Kessler. Observed the waste storage area, Histology Department, morgue, and main lab. Drums and containers of wastes are covered and labeled. Wastes include formalin, minimal amounts of xylene, waste oil, mercury thermometers, and universal wastes. Manifests for waste disposal are available for review. Emergency response and contact information is on site and available for review. Verified the owner as Integrated Healthcare Holdings. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 04-18-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Accepted DO owners statement in portal. DO = Ronald Kress |
| Eval Division: | Orange County Environmental Health |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-12-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received email from Lorna Freeman for South Coast Global Medical who informed this Agency the Integrated Healthcare Holdings will be changing to KPC Health Care Inc and the DBA will change toOrange County Global Medical Center. Emailed Lorna Medical Waste Registration Forms for update of all 4 hospitals. Emailed HCA/Hendron and HCA/Nofal with new information. CUPA programs will need to be updated.
Eval Division: Orange County Environmental Health
Eval Program: HWRecycler
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-17-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: ORANGE COUNTY GLOBAL MEDICAL CENTER New Corporation Change or Ownership: KPC HEALTHCARE, INC.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-09-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Read/review pre 2015 HMBEP submission. Accepted pending review of the more recent submission.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-12-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 07-24-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: open UST pages individually on e-Submit and print for later review.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 09-10-2013

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Not reported |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 10-04-2013 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed status in portal, and since there was no entry for the history, I entered: "2013-09-10 I reviewed the CFR form submitted on our AgencyG s esubmit portal and the form was G Accepted.G " |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-08-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | HMBEP declined in E-Submit. The following notes were included in the review: "Provide an EPA ID# if you generate hazardous waste as indicated on the business activities page. Provide a mailing address for the business owner. For all materials, provide values for largest container, maximum daily amount, average daily amount, and days on site. Maximum daily amount should be greater than or equal to the largest container. Provide a correct CAS# for Diesel. Use 68476-34-6 or 68334-30-5. Change the hazardous material type to pure. Provide a CAS# for oxygen. Indicate that xylene is in the acute and chronic health federal hazard categories. Label the following on the site map: -Hazardous material storage and handling areas -Entrances and exits -Evacuation staging area Please contact Jonathan Alaniz at jalaniz@ochca.com with any questions." |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-19-2013 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | A routine hazardous waste inspection of this facility was conducted today. Access to the facility was provided by Obie Graves, EVS Director, and Joe Brothman, Safety and Emergency Management. The following Departments were visited: - Medical Waste Final Storage Area - OC Burn Unit - Observation Unit - 6th Fl Med Surg - 4th Fl Med Surg - Labor/Deliver - NICU - C-Section OR - OR - ICU - CCU - Main Lab - Histology - Blood Unit - Microbiology - ER - Pharmacy. Note that this facility no longer provides Oncology Services - Chemo waste is not generated at this facility. - Morgue - Hazardous Waste Storage Area As discussed with the operator, the facility no longer generates chemotherapy waste since Oncology services are no longer offered at this location. RCRA hazardous waste containers though should be used to contain RCRA-defined hazardous waste that might otherwise be generated in the Pharmacy. Review the guidance documents to be via |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

[Truncated]
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received notification of monitoring cert. Put date on calendars. Ran Report 7800 for use at A01.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Received notification of UST monitoring cert. Put date on calendar and expect to do A01 for Recycler. Ran Report 7800 for use at A01.
Eval Division: Orange County Environmental Health
Eval Program: HWRecycler
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-23-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Talked to Dennis Rock on the phone to confirm monitoring system certification tomorrow and to learn where the UST is located at the hospital.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-24-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: prep for A01
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-26-2021
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received by this Agency: - Monitoring System Certification Form (dated 1/13/2021) - Spill Container Testing Report Form (dated 1/13/2021) All tested components PASSED. In addition, the following documents were received by this Agency: - Secondary Containment Testing Report Form (dated 1/13/2021) - Overfill Prevention Equipment Inspection Report Form (dated 1/13/2021) The following secondary containment components PASSED testing: - Tank Secondary (x1) - Pipe Secondary (x3) - Sump Secondary (x2) The

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

following overfill prevention equipment FAILED testing: - OPW Flapper (x1) The following violations cited on a previous inspection report remain uncorrected: (1583) - Failure to submit a maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance (I671) - Failure to submit the "Designated Underground Storage Tank Operator Identification Form" within 30 days of a change in [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Regarding alcohol and xylene previously generated and recycled in Histology, the operator (Joe Brothman) stated on 2/3/14: I spoke with histology who detailed our chemical processes. We do recycle alcohol, xylene and formalin, but since we outsourced our histology, we mostly only deal with formalin and only rarely use alcohol or xylene. Our log, as detailed in the photo, does capture any time we recycle these chemicals. From our records we are using less of each chemical than previous years, and we have never been cited for needing a permit. If you would like to come take a look, I am available anytime this week.
Eval Division: Orange County Environmental Health
Eval Program: HWRecycler
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-03-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB 989 retest notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 03-25-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed submission package on eSubmit Portal, DECLINED. Request for re-submittal this date. Please verify the vent Piping is actually secondarily contained. Please check ISOLATION for corrosion protection. Monitoring Plan please: Check box IV 1 Continuous Electronic...; Uncheck box IV 2 Automatic Tank Gauging...; Check box V 1 Continuous Electronic... and Secondary Containment is a: DRY; & Check box V 5 Visual Pipe Montitoring; Uncheck box V 6 Suction Piping...; Check box VI 4 No dispensers. Please provide a plot plan with the entire piping run. For questions please contact Alvin Dong, adong@ochca.com 714 640 9358
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 04-16-2015

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Print waste stream and review for inspection. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 06-17-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | ORANGE COUNTY GLOBAL MEDICAL CENTER New Corporation Change or Ownership: KPC HEALTHCARE, INC. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-11-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Facility has complied with 2016 HMBEP reporting requirements. Reviewed HMBEP submittal on E-submit. Package was declined and an email sent to the facility contact. The following corrections are needed: CHEMICAL INVENTORY Diesel G max daily amount must be at least the same as largest container//storage pressure is ambient Liquid Oxygen G add cryogenic to the fire code hazard classes//max daily amount must be equal to or larger than amount listed under largest container//add acute health to the federal hazard categories//storage temperature = cryogenic Xylene G complete largest container, average daily, max daily and days on site fiels SITE MAP Please add the following to your map: hazardous materials storage locations, building entrances and exits and storm drains and sewers. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-24-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | open HMBEP pages individually on e-Submit and print for later review. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 07-28-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Reviewed E-Submit submittal but could not save data (server down). |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Other/Unknown |
| Eval Date: | 09-10-2013 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | I reviewed a CFR form and a Designated Operator form submitted on our AgencyG s esubmit portal. Both the Designated Operator form and the CFR form were G Accepted.G |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-20-2018 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The following documentation has been received by this agency: -Overfill Prevention Equipment Inspection Report for test date 12/05/2018 The following components passed testing: -Flapper Valve Overfill prevention testing was required to be completed by 10/13/2018. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 12-28-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for a routine hazardous waste inspection. Consent to enter and inspect granted by Robert Kessler. Observed the waste storage areas, perimeter of facility and trash containers. Containers of wastes are covered and labeled. Wastes include formalin, fuel, oily rags, oil, phenol, ethanol, acids, sodium hydroxide, labpack waste, and universal wastes. Manifests for waste disposal are available for review. Emergency response and spill procedures are available on site. Correct the violation within 30 days. Complete the attached CRC and return to this agency. . |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-30-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Monitor cert notification |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 12-31-2015 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | February 2015 submission DELETED Ownership change June 2015 current submission requires piping, monitoring plan & plot plan corrections. For questions please contact Alvin Dong, adong@ochca.com 714 640 9358 |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 12-31-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Most recent submittal is in E-Submit under the UST(PA) link. Deleted the submission dated 7/24/14 in the OC UST link.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-05-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-09-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: submission in review
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-10-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review of waste streams and hw shipped 2013.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-10-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This agency received and reviewed the Certificate of Return to Compliance. Violation I400 abated. No outstanding violations.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-13-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for routine UST inspection and to observe the Monitoring System Certification. The facility has the following double-walled tank: - Diesel fuel: 12,000 gallons Tank is monitored by a Veeder Root (VR) TLS-300 system. Fill and piping sumps are monitored by VR205

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

sensors. Annular is monitored by a VR420 sensor. Tank has double-walled suction piping. Sensors were tested and operational. Tank utilizes a flapper for overfill prevention. Overfill prevention testing was last conducted on 12/5/2018; it must be tested every 36 months. Overfill prevention testing was performed during today's inspection. Secondary containment testing was last conducted on 1/17/2018; it must be conducted every 36 months. Secondary containment testing was performed during today's inspection. Testing was conducted by Edwin Coreas of Fuel Pros. Tester certifications (ICC, VR, Incon) were verified on site. Please submit test reports to this Agency within 30 days. A [Truncated]

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-08-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: submission in review
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: The following materials were observed on site at or above the regulatory threshold for reporting: -Aqua-Serve 2302D: one 60 gallon container -Aqua-Serve 2362: one 60 gallon container -Aqua-Serve 4622: one 60 gallon container -Aqua-Serve 4913D: one 60 gallon container -Diesel: one 12,000 gallon underground storage tank -Liquid Oxygen: one 6,000 gallon tank and one 525 gallon tank Assisted facility with 2018 CERS submission on this date.
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-22-2015
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Review for inspection.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-22-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for a monitor certification and routine inspection. This site has 1 double walled diesel tank with double walled suction piping for a back up generator. The piping sump sensor, fill sump sensor, and annular sensor were tested for alarm. The tank uses a mechanical overfill prevention device. The spill bucket was visually tested and

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | passed. Tank is monitored by a Veeder Root TLS-300. Observed the following documents: - Certificate of financial responsibility dated 1-19-16 - Designated Operator statement - expiration dated 9-15-16 - DO monthly inspections with alarm history - Employee training records are current - Monitor certification dated 1/23/15 - SB989 test results dated 1/23/15, 3/4/15 - Spill bucket test dated 1/23/15 - Service tickets, work orders - Required UPC forms from E-Submit portal No alarms identified since last monitor certification. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-09-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | submission in review |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-13-2021 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | On site for routine hazardous materials and business emergency plan inspection. Observed the facility and inspected hazardous materials storage. The following materials were observed in amounts that meet or exceed the minimum volumes required for disclosure: - Diesel fuel (12,000 gallons stored in UST) - AquaServ 2302D (approximately 60 gallons) - AquaServ 2632 (approximately 60 gallons) - AquaServ 4913D (approximately 60 gallons) - AquaServ 4622 (approximately 60 gallons) - Liquid Oxygen (1 x 6,000 gallon tank, 1 x 525 gallon tank; total of 6,525 gallons) - Oxygen Gas (stored in various cylinders, largest cylinder is 251 cubic feet; approximate total of 6,211 cubic feet) - Carbon Dioxide (stored in various cylinders, largest container is 437 cubic feet; approximate total of 5,681 cubic feet) - Nitrogen (28 x 230 cubic foot cylinders; approximate total of 6,440 cubic feet) - Nitrous Oxide (16 x 489 cubic foot cylinders; approximate total of 7,824 cubic [Truncated] |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 01-17-2018 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | INSPECTOR COMMENTS: On site for routine Recycler inspection, consent to enter and conduct inspection activities was provided by Ronald Kress, Lead Engineer. Facility recycles the following materials in the following quantites: -Xylene: 0.264 gallons per year -Formuline: 8.45-16.91 gallons per month -Alcohol: 6-8 gallons per year Facility recycles below the regulatory threshold for reporting recyclable material. Changing to status 02. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HWRecycler |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: On site for routine UST inspection and to observed the following testing: - Annual Monitoring System Certification - Spill Container Testing The facility has one 12,000-gallon double-walled tank (Diesel) used for an emergency generator. The tank is monitored by a Veeder-Root (VR) TLS-300 system. Fill sump and piping sump are monitored by VR-205 sensors. Annular is monitored by a VR-420 sensor. The tank has double-walled suction piping. Testing was conducted by Joseph Gonzalez of Fuel Pros Inc. Tester certifications (VR, ICC) were verified. Flapper valve is used for overfill prevention. Overfill prevention test was last performed on 12/5/2018. Testing must be performed every 36 months. Secondary Containment testing was last performed on 1/17/2018. Testing must be performed every 36 months. Please submit the test reports to this agency within 30 days.
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Testing was conducted by Joseph Gonzalez of Fuel Pros. Tester certifications (VR, ICC) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The facility has one double-walled tank (Diesel) monitored by a Veeder Root TLS-300 system. Tank is used as a back-up generator. Site uses a flapper valve for overfill prevention. Annular sensor and sump sensors alarmed properly (visual and audible). Spill bucket testing not witnessed by this agency. The following documents were available for review: Monitoring Plan, Leak Response Plan, Test Reports, Maintenance Records, DO Monthly Reports, DO Annual Employee Training Records, CFR and daily inspection records for above ground piping. Secondary containment testing last conducted on 01/17/2018. Secondary containment must be [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-22-2014

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: A review of hazardous waste manifests shipped from your facility last calendar year (2013) indicates that on HW Manifest No. 0111192089 (ship date 3/12/13) several drums of formalin waste were shipped for treatment. Our inspection conducted on 12/19/13 indicated that formalin was being recycled in the pathology department, but that alcohol and xylene were no longer being recycled. Clarify whether alcohol and xylene are no longer recycled at this facility, and if no longer recycled, indicate how that waste is being managed.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-23-2018
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents were received and ACCEPTED on CERS: -Business Activities -Business Owner/Operator -Chemical Inventory -Facility Site Map -Emergency Response & Training Plans
Eval Division: Orange County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-24-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: I was on site to conduct a routine inspection while a monitoring system certification is being performed by Dennis Rock Construction. The technician on site, Dana Rock, showed me his ICC UST Service Technician certification card with expiration date of 7/12/2015 and his Veeder-Root certified technician card with expiration date of 5/13/2014. A Veeder-Root TLS-300 monitoring system is in use here to monitor USTs. This facility has one UST, and it is used to supply diesel fuel to the emergency generator on site. The UST is double-walled, and fuel to drawn to the day tank of the emergency generator using a suction system. For overfill protection, a flapper valve is in the drop tube of the UST. All UST manhole covers to the UST system were opened by the technician and the following was observed: -No pooled liquid observed in sumps; -all sensors were located in the low point of sumps; -all secondary piping test boots within piping sumps and UDCG s were pulled back from [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-27-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The following documents have been received by this agency: - Monitoring System Certification Form (dated 1/16/2020) - Spill Container Testing Report Form (dated 1/16/2020) The following components were tested and PASSED: - Annular Space Sensor (1x VR-420) - Product Piping Sump Sensor (1x VR-205) - Filling Piping Sump Sensor

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| | (1x VR-205) - Spill Container (1x) |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-29-2019 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The following documentation has been received by this agency: -Monitor System Certification for test date 01/17/2019 -Spill Container Testing Report for test date 01/17/2019 The following components passed testing: -Annular Sensor (x1) -Piping Sump Sensor (x1) -Spill Bucket (x1) |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 01-30-2017 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Review CERS submittal - not accepted. Issue violation in A01 report. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-03-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Conversation with Safety Officer Joe Brothman today. Joe states that alcohol and xylene are recycled in Histology Department, but he will verify with histology staff person (Kelly) . Joe will email back with information regarding xylene and alcohol management. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-04-2014 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | reviewed history of my activities here and responded to email from supe. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HWRecycler |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-04-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Review HM submittal per conversation with Ron Kress regarding issues making changes in portal. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-05-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: The business updated and resubmitted the following documents in CERS: - Designated UST Operator Identification Form - Certification of Financial Responsibility (dated 12/10/2020) In addition, the following document was received by this Agency: - Overfill Prevention Equipment Inspection Report Form (repair test dated 1/26/2021) Like-for-like flapper was installed, re-tested, and PASSED. Violations I583, I671, and I101 have been corrected. No violations remain under the Underground Storage Tank program. A copy of this report will be emailed to: Ron Kress, Lead Plant Engineer <ronald.kress@kpchealth.com>
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-17-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTOR COMMENTS: On site to witness monitoring system certification testing activities and to conduct routine UST inspection. Testing was conducted by Joseph Gonzalez of Fuel Pros. Tester certifications (VR, ICC) were verified. Certification stickers were attached to all tested components. Please submit the test reports to this Agency within 30 days. The facility has one double-walled tank (Diesel) monitored by a Veeder Root TLS-300 system. Tank is used as a back-up generator. Site uses a flapper valve for overfill prevention. Annular sensors and sump sensors alarmed properly (visual and audible) and shut down respective turbine when submerged in water for the Diesel tank. Fail-safe, sensor out and emergency shut off were tested and passed. Spill buckets were tested visually without any changes in water level. The following documents were available for review: Monitoring Plan, Leak Response Plan, Test Reports, Maintenance Records, DO Monthly Reports, [Truncated]
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Reviewed submission in e-Submit portal, and set status in portal to G DECLINED,G based on the following: 1) most fields on UST TANK INFORMATION form have not been completed, 2) can not review UST MONITORING PLAN without a completed UST TANK INFORMATION form. Other forms submitted also: 1 BUSINESS ACTIVITIES form: OK 2 BUSINESS OWNER-OP form: OK 3 UST FACILITY INFORMATION form: OK 4 UST TANK INFORMATION forms: Not OK, as most fields on form have not been completed. 05 CERT OF FIN RESP and CFO LETTER: OK G approved 9/10/2013 (9/06/2012 to 9/16/2013 is coverage period) 6 UST MONITORING PLAN: Can not review without completed UST TANK INFORMATION form. 7 MONITORING

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

SITE PLAN: OK 8 UST RESPONSE PLAN: OK 9 OWNER STATEMENT - DO form: OK 10 OWNER-OP AGREEMENT: N/A

Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-19-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On site for a monitor certification and routine inspection. This site has one double walled tank with double walled suction piping for a back-up generator. The tank system is monitored by a Veeder Root TLS-300. The piping sump sensor, fill sump sensor, and annular sensor were tested for alarm. The tank uses a flapper valve for overfill prevention. The spill bucket was visually tested. The following documents are available for review: - UPC forms from CERS - Certificate of financial responsibility dated 1/9/16 - UST response plan - UST monitoring plan - UST plot plan - Designated operator statement - expiration dated 9/12/18 - DO monthly inspections with alarm history - Employee training records are current - No alarms since last inspection - Monitor certification dated 1/22/16 - SB989 test dated 1/23/15, 3/4/15 - Spill bucket tests dated 1/22/16 - Above ground piping daily inspection log
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 01-21-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Monitor cert notification
Eval Division: Orange County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Regarding alcohol and xylene previously generated and recycled in Histology, the operator (Joe Brothman) stated on 2/3/14: I spoke with histology who detailed our chemical processes. We do recycle alcohol, xylene and formalin, but since we outsourced our histology, we mostly only deal with formalin and only rarely use alcohol or xylene. Our log, as detailed in the photo, does capture any time we recycle these chemicals. From our records we are using less of each chemical than previous years, and we have never been cited for needing a permit. If you would like to come take a look, I am available anytime this week.
Eval Division: Orange County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 02-04-2014
Violations Found: No

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | reviewed history of my activities here and responded to email from super regarding time spent on this faciltiy. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-05-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | Spoke with Ron Kress, rejected HM submittal in E-Submit. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-05-2021 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The business updated and resubmitted the following documents in CERS: - Business Activities - Business Owner/Operator Identification - Hazardous Material Inventory - Site Map - Emergency Response Plan/Employee Training Plan The documents were reviewed and ACCEPTED by this Agency. In addition, the following documents were provided to this Agency: - Employee Training Records (dated 2/3/2021) Violations I336 and I239 have been corrected. No violations remain under the Hazardous Material Disclosure program. Please note: - All employees are required to be trained annually; new employees are required to be trained within 6 months. Maintain employee training records on site for a minimum of three (3) years A copy of this report will be emailed to: Ron Kress, Lead Plant Engineer <ronald.kress@kpchealth.com> |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-08-2018 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | The following documents submitted to CERS on 1/17/18 and were accepted: -Site Plan -Monitoring Plan -CFR -Leak Response Plan -CFO Letter -DO Statement |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |
| | |
| Eval General Type: | Other/Unknown |
| Eval Date: | 02-17-2015 |
| Violations Found: | Yes |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This agency received and reviewed the monitor certification and SB989 test results for the underground storage tank at this site. The results for the monitor certification and spill bucket test indicate all components passed. . |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Eval Source: | CERS |
| Eval General Type: | Other/Unknown |
| Eval Date: | 03-14-2016 |
| Violations Found: | No |
| Eval Type: | Other, not routine, done by local agency |
| Eval Notes: | This agency received and reviewed the monitor certification and spill bucket test dated 1/22/16. The results indicate all components passed. |
| Eval Division: | Orange County Environmental Health |
| Eval Program: | UST |
| Eval Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 413556 |
| Facility Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Env Int Type Code: | HMBP |
| Program ID: | 10558528 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station. |
| Latitude: | 33.753160 |
| Longitude: | -117.834160 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Kyle Houraney |
| Entity Title: | Not reported |
| Affiliation Address: | 1001 N. Tustin Ave |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | KPC HEALTH |
| Entity Title: | Not reported |
| Affiliation Address: | 1301 N. Tustin Ave |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 953-3641 |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | Orange County Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1241 East Dyer RoadSuite 120 |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705-5611 |
| Affiliation Phone: | (714) 433-6406 |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Ronald Kress |
| Entity Title: | Not reported |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1001 N TUSTIN AVE |
| Affiliation City: | SANTA ANA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Ronald Kress |
| Entity Title: | Lead Engineer |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | KPC Healthcare Inc |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 953-3500 |

| | |
|---|---|
| Affiliation Type Desc: | UST Tank Operator |
| Entity Name: | Kyle Houraney |
| Entity Title: | Not reported |
| Affiliation Address: | 1001 N. Tustin Ave |
| Affiliation City: | Santa Ana |
| Affiliation State: | Not reported |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 953-3480 |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | KPC Healthcare Inc |
| Entity Title: | Not reported |
| Affiliation Address: | 1301 N. Tustin Ave. |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 953-3652 |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Western Medical Center Anaheim |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | Robert Kessler |
| Entity Title: | Dir. Facilities |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (714) 953-3641 |

| | |
|---|---|
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | KPC HEALTH |
| Entity Title: | Not reported |
| Affiliation Address: | 1301 N. Tustin |
| Affiliation City: | Santa Ana |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 92705 |
| Affiliation Phone: | (714) 953-3641 |

| | |
|---|---|
| Name: | WESTERN MEDICAL CTR (EIS USE) |
| Address: | 1001 N TUSTIN |
| City,State,Zip: | SANTA ANA, CA 92705-3502 |
| Site ID: | 504834 |
| CERS ID: | 110002416252 |
| CERS Description: | US EPA Air Emission Inventory System (EIS) |

HWTS:

| | |
|---|---|
| Name: | WESTERN MEDICAL CENTER SANTA ANA |
| Address: | 1001 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |
| EPA ID: | CAL000292871 |
| Inactive Date: | 06/30/2006 |
| Create Date: | 04/06/2005 |
| Last Act Date: | 05/25/2007 |
| Mailing Name: | Not reported |
| Mailing Address: | 1001 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 92705 |
| Owner Name: | WMC-SA, INC |
| Owner Address: | 1001 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 92705 |
| Contact Name: | KIRK BRANTLEY |
| Contact Address: | 1001 N TUSTIN AVE |

**WESTERN MEDICAL CTR (EIS USE) (Continued)** **1000403038**

| | |
|---|---|
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000292871 |
| Create Date: | 2005-04-06 14:20:32.033 |
| NAICS Code: | 62211 |
| NAICS Description: | General Medical and Surgical Hospitals |
| Issued EPA ID Date: | 2005-04-06 14:20:31.98700 |
| Inactive Date: | 2006-06-30 10:14:52 |
| Facility Name: | WESTERN MEDICAL CENTER SANTA ANA |
| Facility Address: | 1001 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 92705 |

| | |
|---|---|
| Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Address: | 1001 N TUSTIN AVE |
| Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 927053502 |
| EPA ID: | CAL000316673 |
| Inactive Date: | Not reported |
| Create Date: | 02/21/2007 |
| Last Act Date: | 09/11/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | 1001 N TUSTIN AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | SANTA ANA, CA 927053502 |
| Owner Name: | KPC HEALTH |
| Owner Address: | 1301 N TUSTIN AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | SANTA ANA, CA 927058619 |
| Contact Name: | KYLE HOURANEY |
| Contact Address: | 1001 NORTH TUSTIN AVE |
| Contact Address 2: | Not reported |
| City,State,Zip: | SANTA ANA, CA 92705 |

NAICS:

| | |
|---|---|
| EPA ID: | CAL000316673 |
| Create Date: | 2007-02-21 11:33:02.947 |
| NAICS Code: | 62211 |
| NAICS Description: | General Medical and Surgical Hospitals |
| Issued EPA ID Date: | 2007-02-21 11:33:02.86700 |
| Inactive Date: | Not reported |
| Facility Name: | ORANGE COUNTY GLOBAL MEDICAL CENTER |
| Facility Address: | 1001 N TUSTIN AVE |
| Facility Address 2: | Not reported |
| Facility City: | SANTA ANA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 927053502 |

Count: 20 records.

ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| ANAHEIM | S126983827 | ANAHEIM CITY DUMP #7 | SW OF SANTA ANA RIVER & LINCOL | 92705 | SWF/LF |
| ANAHEIM | S126983833 | ORANGE #4/CANAL ST/NEWKIRK LF | SANTA ANA RIVER AT FRONTERA ST | 92705 | SWF/LF |
| IRVINE | S126983818 | JEFFERY ROAD ROCK PLANT | JEFFREY ROAD AND SANTIAGO CANY | 92705 | SWF/LF |
| ORANGE | S126983809 | ORANGE CITY DUMP #4 | HART PARK 600 S GLASSELL ST | 92705 | SWF/LF |
| ORANGE | S126983810 | FOSTER SAND & GRAVEL | KATELLA (E) AND SANTA ANA RIVE | 92705 | SWF/LF |
| ORANGE | S114682186 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA | | RGA LUST |
| ORANGE | S106117698 | SHELL STATION | 889 TUSTIN AVE N | 92866 | LUST |
| SANTA ANA | S114732386 | SANTA ANA VALLEY IRRIGATION DUMP # | E BANK OF SANTA ANA RIVER, S O | | RGA LF |
| SANTA ANA | S123528991 | SANTA ANA VALLEY IRRIGATION DUMP # | E BANK OF SANTA ANA RIVER, S O | 92701 | CERS |
| SANTA ANA | S100864772 | HONEYWELL | 514 LYON ST | 92701 | LUST, HIST CORTESE |
| SANTA ANA | S103442602 | SANTA ANA CITY | MCFADDEN NR SANTA ANA RIVER | 92701 | WMUDS/SWAT |
| SANTA ANA | S121700004 | LEWIS CLEANERS | NE OF 17TH & TUSTIN | 92701 | DRYCLEANERS |
| SANTA ANA | S114682179 | SANTA ANA COUNTRY CLUB MAINTENANCE | 20241 SANTA ANA AVE | | RGA LUST |
| SANTA ANA | S114682183 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA BLVD | | RGA LUST |
| SANTA ANA | S114682180 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA AVENUE | | RGA LUST |
| SANTA ANA | S114682187 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA | | RGA LUST |
| SANTA ANA | S114682185 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA BOULEVARD | | RGA LUST |
| SANTA ANA | S114682181 | SANTA ANA COUNTRY CLUB | 20241 SANTA ANA AVE | | RGA LUST |
| SANTA ANA | S105265599 | DANNY'S CLEANERS | 1942 TUSTIN | 92701 | DRYCLEANERS |
| SANTA ANA | U001578100 | ARCO | 13972 N TUSTIN AVE | 92701 | LUST, HIST UST |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Quarterly

***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Quarterly

***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 61

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

***State- and tribal - equivalent CERCLIS***

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/20/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/30/2021
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

***State and tribal Brownfields sites***

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/13/2021
Number of Days to Update: 88

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 07/22/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/14/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

***Records of Emergency Release Reports***

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/19/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/12/2021
Number of Days to Update: 85

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/26/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/05/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/01/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/12/2021
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/15/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF: Recovered Government Archive Solid Waste Facilities List
The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank
The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/22/2021
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 08/05/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 07/20/2021
Date Data Arrived at EDR: 07/20/2021
Date Made Active in Reports: 10/11/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 07/23/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 77

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/09/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/13/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 56

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 6

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/08/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/09/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/08/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2021
Next Scheduled EDR Contact: 11/28/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/01/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/10/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/06/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/14/2021
Date Data Arrived at EDR: 07/15/2021
Date Made Active in Reports: 10/06/2021
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 10/07/2021
Number of Days to Update: 80

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/20/2021
Date Data Arrived at EDR: 07/20/2021
Date Made Active in Reports: 10/08/2021
Number of Days to Update: 80

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/07/2021
Next Scheduled EDR Contact: 01/24/2022
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

**STREET AND ADDRESS INFORMATION**

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# GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

**TARGET PROPERTY ADDRESS**

MCDONALDS SANTA ANA
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 33.767502 - 33˚ 46’ 3.01’’ |
| Longitude (West): | 117.836719 - 117˚ 50’ 12.19’’ |
| Universal Tranverse Mercator: | Zone 11 |
| UTM X (Meters): | 422518.2 |
| UTM Y (Meters): | 3736498.2 |
| Elevation: | 193 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 5641308 ORANGE, CA |
| Version Date: | 2012 |

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

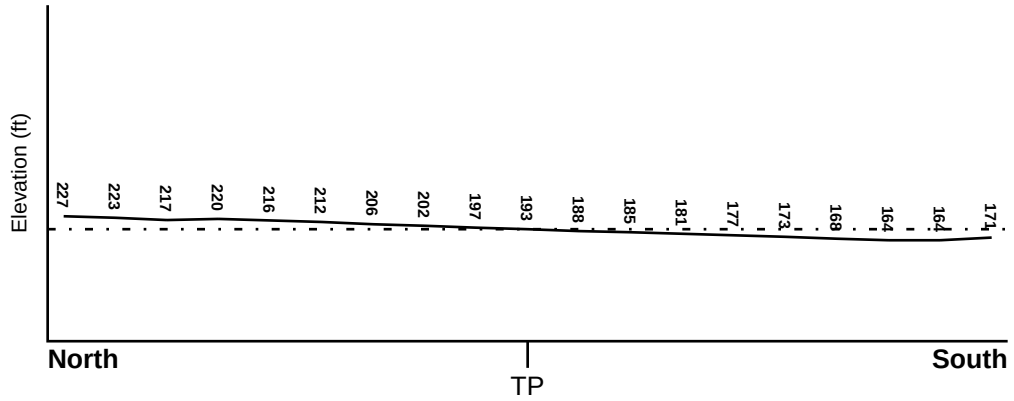
**TOPOGRAPHIC INFORMATION**

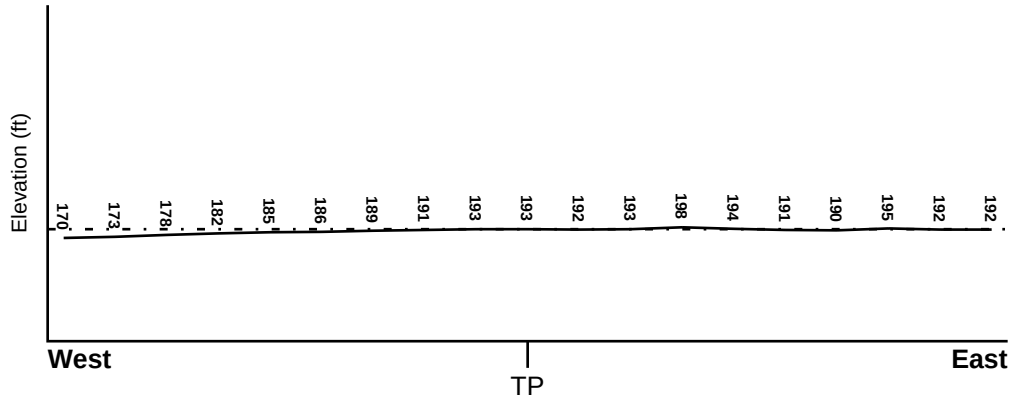
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

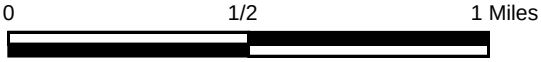
General Topographic Gradient: General SSW

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




**Target Property Elevation: 193 ft.**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 06059C0164J | FEMA FIRM Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 06059C0162J | FEMA FIRM Flood data |
| 06059C0163J | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| ORANGE | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Status: | Not found |

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| A1 | 0 - 1/8 Mile SW | Not Reported |
| A2 | 0 - 1/8 Mile East | Not Reported |
| 25 | 1/2 - 1 Mile North | Not Reported |
| 77 | 1/2 - 1 Mile WSW | S |
| 1G | 1/2 - 1 Mile North | Not Reported |
| 2G | 0 - 1/8 Mile East | Not Reported |
| 4G | 0 - 1/8 Mile SW | Not Reported |

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| 5G | 1/2 - 1 Mile WSW | S |

For additional site information, refer to Physical Setting Source Map Findings.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

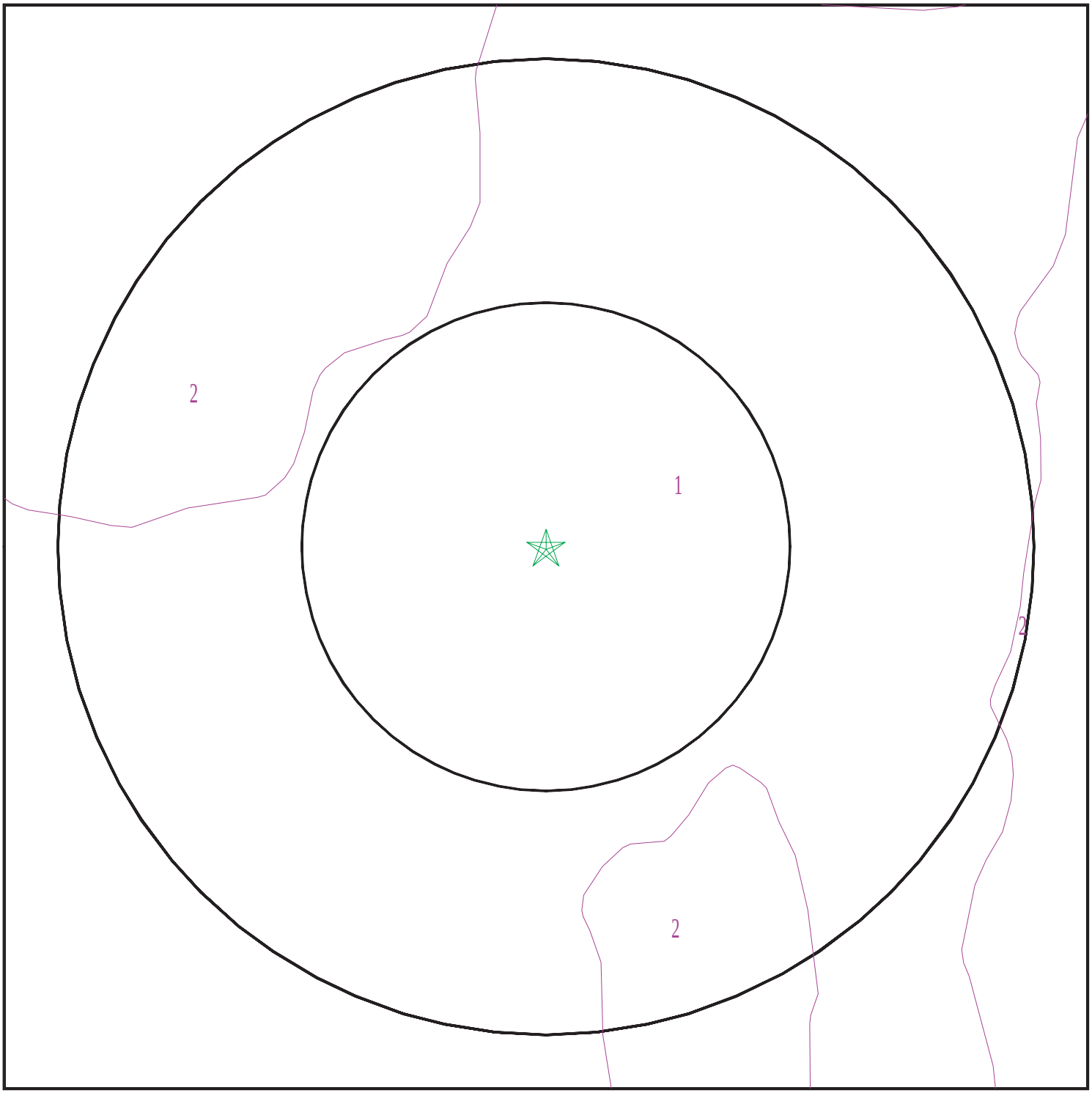
| | |
|---|---|
| Era: | Cenozoic |
| System: | Quaternary |
| Series: | Quaternary |
| Code: | Q *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 6703026.2s




Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

| | | | |
|---|---|---|---|
| SITE NAME: | Mcdonalds Santa Ana | CLIENT: | Universal Engineering Sciences |
| ADDRESS: | 2109 E Santa Clara Avenue<br>Santa Ana CA 92705 | CONTACT: | Alexia Mackey |
| | | INQUIRY #: | 6703026.2s |
| LAT/LONG: | 33.767502 / 117.836719 | DATE: | October 14, 2021 8:46 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: MOCHO

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 31 inches | loam | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.9 |
| 2 | 31 inches | 61 inches | loam | Not reported | Not reported | Max: 14<br>Min: 4 | Max: 8.4<br>Min: 7.9 |

---

**Soil Map ID: 2**

Soil Component Name: SAN EMIGDIO

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 7 inches | fine sandy loam | Not reported | Not reported | Max: 42<br>Min: 14 | Max: 8.4<br>Min: 7.9 |
| 2 | 7 inches | 61 inches | stratified gravelly loamy coarse sand to very fine sandy loam | Not reported | Not reported | Max: 42<br>Min: 14 | Max: 8.4<br>Min: 7.9 |

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

## FEDERAL USGS WELL INFORMATION

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| C7 | USGS40000137962 | 1/4 - 1/2 Mile South |
| E15 | USGS40000138060 | 1/4 - 1/2 Mile NNW |
| F17 | USGS40000138059 | 1/4 - 1/2 Mile NE |
| F18 | USGS40000138047 | 1/4 - 1/2 Mile NE |
| G27 | USGS40000138028 | 1/2 - 1 Mile ENE |
| H36 | USGS40000138097 | 1/2 - 1 Mile NW |
| J58 | USGS40000137999 | 1/2 - 1 Mile West |
| M69 | USGS40000137931 | 1/2 - 1 Mile SE |
| N73 | USGS40000138117 | 1/2 - 1 Mile NNE |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| B3 | 6118 | 1/8 - 1/4 Mile ESE |
| B4 | 6119 | 1/8 - 1/4 Mile ESE |
| B5 | 6121 | 1/8 - 1/4 Mile ESE |
| 6 | CADWR9000005435 | 1/4 - 1/2 Mile NW |
| C8 | CAUSGSN00000218 | 1/4 - 1/2 Mile South |
| D9 | CADWR9000005405 | 1/4 - 1/2 Mile WSW |
| D10 | CADWR9000005406 | 1/4 - 1/2 Mile WSW |
| D11 | CADWR9000005407 | 1/4 - 1/2 Mile WSW |
| C12 | CADDW0000014012 | 1/4 - 1/2 Mile SSE |
| E13 | CAUSGSN00001229 | 1/4 - 1/2 Mile NNW |
| C14 | CADWR0000030503 | 1/4 - 1/2 Mile SSE |
| F16 | CAUSGSN00007935 | 1/4 - 1/2 Mile NE |
| F19 | CADWR9000005440 | 1/4 - 1/2 Mile NE |
| E20 | CADWR9000005442 | 1/4 - 1/2 Mile NW |
| F21 | CADDW0000019236 | 1/4 - 1/2 Mile NE |
| F22 | CADDW0000021707 | 1/4 - 1/2 Mile NE |
| F23 | CADWR0000027582 | 1/2 - 1 Mile NE |
| F24 | CADDW0000001625 | 1/2 - 1 Mile NE |
| G26 | CADWR0000033531 | 1/2 - 1 Mile ENE |
| G28 | CAUSGSN00018322 | 1/2 - 1 Mile ENE |
| 29 | CADDW0000017311 | 1/2 - 1 Mile ENE |
| H30 | CADDW0000011528 | 1/2 - 1 Mile NW |
| H31 | CAPFAS000000115 | 1/2 - 1 Mile NW |
| 32 | CADWR9000005379 | 1/2 - 1 Mile SSW |
| H33 | CADDW0000015524 | 1/2 - 1 Mile NW |
| H34 | CAUSGSN00013019 | 1/2 - 1 Mile NW |
| H35 | CAUSGS000001814 | 1/2 - 1 Mile NW |
| I37 | CAEDF0000137772 | 1/2 - 1 Mile SE |
| I38 | CAEDF0000125522 | 1/2 - 1 Mile SE |
| I39 | CAEDF0000047342 | 1/2 - 1 Mile SE |
| H40 | CADWR9000005465 | 1/2 - 1 Mile NW |
| I41 | CAEDF0000072190 | 1/2 - 1 Mile SE |
| I42 | CAEDF0000016684 | 1/2 - 1 Mile SE |
| I43 | CAEDF0000012506 | 1/2 - 1 Mile SE |
| I44 | CAEDF0000011144 | 1/2 - 1 Mile SE |
| I45 | CAEDF0000103160 | 1/2 - 1 Mile SE |
| I46 | CAEDF0000125188 | 1/2 - 1 Mile SE |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

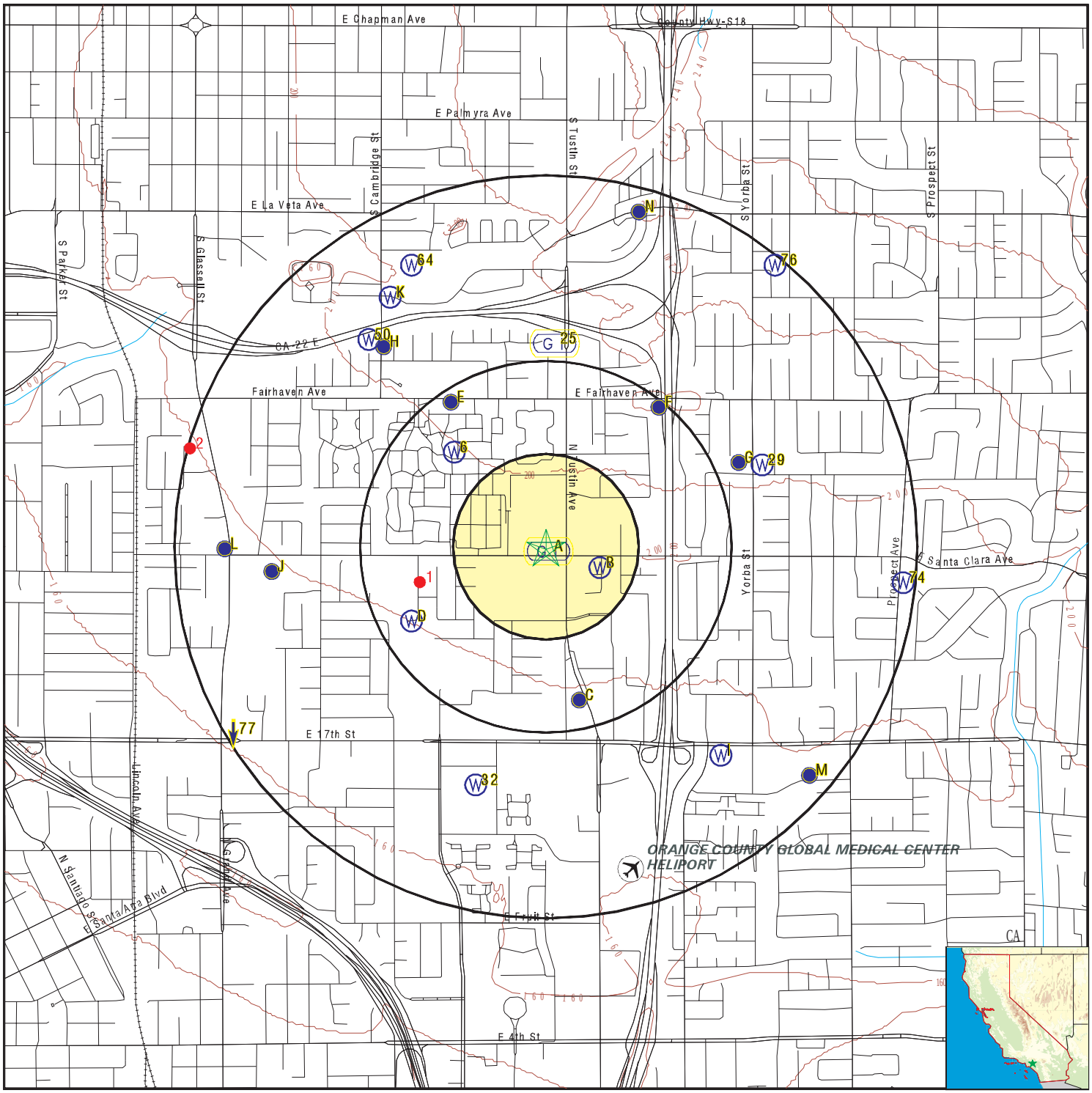
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| I47 | CAEDF0000061947 | 1/2 - 1 Mile SE |
| I48 | CAEDF0000013580 | 1/2 - 1 Mile SE |
| I49 | CAEDF0000093299 | 1/2 - 1 Mile SE |
| 50 | CADWR0000034182 | 1/2 - 1 Mile NW |
| I51 | CAEDF0000014167 | 1/2 - 1 Mile SE |
| I52 | CAEDF0000097888 | 1/2 - 1 Mile SE |
| I53 | CAEDF0000058640 | 1/2 - 1 Mile SE |
| I54 | CAEDF0000059727 | 1/2 - 1 Mile SE |
| I55 | CAEDF0000008841 | 1/2 - 1 Mile SE |
| J56 | CAUSGSN00015822 | 1/2 - 1 Mile West |
| I57 | CAEDF0000080068 | 1/2 - 1 Mile SE |
| I59 | CAEDF0000021040 | 1/2 - 1 Mile SE |
| I60 | CAEDF0000013675 | 1/2 - 1 Mile SE |
| I61 | CAEDF0000086506 | 1/2 - 1 Mile SE |
| K62 | CADWR0000003969 | 1/2 - 1 Mile NNW |
| K63 | CADWR9000005470 | 1/2 - 1 Mile NNW |
| 64 | CADWR0000009102 | 1/2 - 1 Mile NNW |
| L66 | CAEDF0000083023 | 1/2 - 1 Mile West |
| L67 | CAEDF0000046057 | 1/2 - 1 Mile West |
| L68 | CAEDF0000062010 | 1/2 - 1 Mile West |
| N70 | CADWR9000005485 | 1/2 - 1 Mile NNE |
| M71 | CALLNL000000349 | 1/2 - 1 Mile SE |
| M72 | CAUSGSN00019432 | 1/2 - 1 Mile SE |
| 74 | CADWR0000026255 | 1/2 - 1 Mile East |
| M75 | CADDW0000002450 | 1/2 - 1 Mile SE |
| 76 | CADWR0000012064 | 1/2 - 1 Mile NE |

**OTHER STATE DATABASE INFORMATION**

**STATE OIL/GAS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CAOG14000006214 | 1/4 - 1/2 Mile WSW |
| 2 | CAOG14000006323 | 1/2 - 1 Mile WNW |

# PHYSICAL SETTING SOURCE MAP - 6703026.2s




County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

| | |
|---|---|
| SITE NAME: Mcdonalds Santa Ana | CLIENT: Universal Engineering Sciences |
| ADDRESS: 2109 E Santa Clara Avenue<br>Santa Ana CA 92705 | CONTACT: Alexia Mackey |
| LAT/LONG: 33.767502 / 117.836719 | INQUIRY #: 6703026.2s |
| | DATE: October 14, 2021 8:46 am |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | | Database | EDR ID Number |
|---|---|---|---|---|
| **A1**<br>**SW**<br>**0 - 1/8 Mile**<br>**Higher** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083001594T<br>Not Reported<br>Not Reported<br>Not Reported<br>30<br>11/30/1990 | **AQUIFLOW** | **38942** |
| **A2**<br>**East**<br>**0 - 1/8 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083002492T<br>Not Reported<br>Not Reported<br>Not Reported<br>200<br>10/13/1994 | **AQUIFLOW** | **68223** |

**B3**
**ESE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS** **6118**

| | | | |
|---|---|---|---|
| Seq: | 6118 | Prim sta c: | 05S/09W-04D01 S |
| Frds no: | 3010047001 | County: | 30 |
| District: | 08 | User id: | TEE |
| System no: | 3010047 | Water type: | G |
| Source nam: | FAIRHAVEN EAST | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 334600.0 | Longitude: | 1175000.0 |
| Precision: | 8 | Status: | AU |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 3010047 | System nam: | Southern Calif Wc - Red Hill |
| Hqname: | RED HILL WATER CO | Address: | 630 E. FOOTHILL BLVD. |
| City: | SAN DIMAS | State: | CA |
| Zip: | 91773 | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 2 |
| Area serve: | Not Reported | | |

| | | | |
|---|---|---|---|
| Sample date: | 08-JAN-18 | Finding: | 432. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 0.14 |
| Chemical: | BROMIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 2.65 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 08-JAN-18 | Finding: | 1.53 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 4.e-002 |
| Chemical: | RADIUM 226 | Report units: | PCI/L |
| Dlr: | 1. | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---|---|---|---|
| Sample date: | 08-JAN-18 | Finding: | 9.5e-002 |
| Chemical: | RADIUM 226 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 2.e-003 |
| Chemical: | RADIUM 228 | Report units: | PCI/L |
| Dlr: | 1. | | |
| Sample date: | 08-JAN-18 | Finding: | 0.613 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 1.47 |
| Chemical: | URANIUM (PCI/L) | Report units: | PCI/L |
| Dlr: | 1. | | |
| Sample date: | 08-JAN-18 | Finding: | 1.02 |
| Chemical: | URANIUM COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 1.11 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 0.47 |
| Chemical: | URANIUM MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 0.322 |
| Chemical: | RADIUM 226 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 0.506 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 667. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 154. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 188. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 2.64 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 08-JAN-18 | Finding: | 167. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 53.2 |
| Chemical: | CALCIUM | Report units: | MG/L |

| | | | |
|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 8.3 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 77. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 2.1 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 64.5 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 08-JAN-18 | Finding: | 84.2 |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 08-JAN-18 | Finding: | 0.26 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 08-JAN-18 | Finding: | 110. |
| Chemical: | BORON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 08-JAN-18 | Finding: | 4.8 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 10-JAN-17 | Finding: | 2.45 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 10-JAN-17 | Finding: | 2.44 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 19-JAN-16 | Finding: | 2.03 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 19-JAN-16 | Finding: | 2.04 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 18-JUN-15 | Finding: | 436. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 18-JUN-15 | Finding: | 430. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 7.9 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |

| | | | |
|---|---|---|---|
| Sample date: | 02-FEB-15 | Finding: | 0.15 |
| Chemical: | BROMIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 1790. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 02-FEB-15 | Finding: | 672. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 164. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 200. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 170. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 53.4 |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 8.9 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 73.3 |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 1.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 60.1 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 02-FEB-15 | Finding: | 85.1 |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 02-FEB-15 | Finding: | 0.31 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 02-FEB-15 | Finding: | 150. |
| Chemical: | BORON | Report units: | UG/L |
| Dlr: | 100. | | |
| Sample date: | 02-FEB-15 | Finding: | 6.3 |
| Chemical: | VANADIUM | Report units: | UG/L |

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|---|---|---|---|
| Dlr: | 3. | | |
| Sample date: | 02-FEB-15 | Finding: | 416. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 9.5 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 19-FEB-14 | Finding: | 2150. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 19-FEB-14 | Finding: | 1.41 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 0.649 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 0.418 |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |
| Sample date: | 19-FEB-14 | Finding: | 0.794 |
| Chemical: | URANIUM COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 1.11 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 0.3 |
| Chemical: | URANIUM MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 0.253 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 0.193 |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 19-FEB-14 | Finding: | 1.3 |
| Chemical: | URANIUM (PCI/L) | Report units: | PCI/L |
| Dlr: | 1. | | |
| Sample date: | 03-SEP-13 | Finding: | 2.4 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-AUG-13 | Finding: | 3.1 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 08-JUL-13 | Finding: | 2.9 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |

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|---|---|---|---|
| Sample date: | 06-MAY-13 | Finding: | 2.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 17-APR-13 | Finding: | 6.8 |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 17-APR-13 | Finding: | 733. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 01-APR-13 | Finding: | 3.1 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-MAR-13 | Finding: | 3.7 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-FEB-13 | Finding: | 3. |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 28-JAN-13 | Finding: | 2390. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 07-JAN-13 | Finding: | 3.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-JAN-13 | Finding: | 310. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 9.3 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 70. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 210. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 04-DEC-12 | Finding: | 3.1 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-NOV-12 | Finding: | 3.5 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 09-JAN-12 | Finding: | 172. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 164. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |

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|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 53.5 |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 7.4 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 76.7 |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 2. |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 58.2 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 84.3 |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 09-JAN-12 | Finding: | 0.21 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 09-JAN-12 | Finding: | 5. |
| Chemical: | VANADIUM | Report units: | UG/L |
| Dlr: | 3. | | |
| Sample date: | 09-JAN-12 | Finding: | 392. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 0.11 |
| Chemical: | BROMIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 2460. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 09-JAN-12 | Finding: | 141. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 649. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 09-JAN-12 | Finding: | 8. |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **B4**<br>**ESE**<br>**1/8 - 1/4 Mile**<br>**Lower** | **CA WELLS** | **6119** |

| | | | |
|---|---|---|---|
| Seq: | 6119 | Prim sta c: | 05S/09W-04D02 S |
| Frds no: | 3010047002 | County: | 30 |
| District: | 08 | User id: | TEE |
| System no: | 3010047 | Water type: | G |
| Source nam: | FAIRHAVEN WEST | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 334600.0 | Longitude: | 1175000.0 |
| Precision: | 8 | Status: | AU |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

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|---|---|---|---|
| System no: | 3010047 | System nam: | Southern Calif Wc - Red Hill |
| Hqname: | RED HILL WATER CO | Address: | 630 E. FOOTHILL BLVD. |
| City: | SAN DIMAS | State: | CA |
| Zip: | 91773 | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 2 |
| Area serve: | Not Reported | | |

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|---|---|---|---|
| Sample date: | 02-SEP-14 | Finding: | 0.33 |
| Chemical: | AMMONIA (NH3-N) | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 03-SEP-13 | Finding: | 2.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-AUG-13 | Finding: | 2.7 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 08-JUL-13 | Finding: | 2.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 01-APR-13 | Finding: | 2.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-MAR-13 | Finding: | 2.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-FEB-13 | Finding: | 2.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 07-JAN-13 | Finding: | 430. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 8.6 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |

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|---|---|---|---|
| Sample date: | 07-JAN-13 | Finding: | 58. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 180. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 07-JAN-13 | Finding: | 2.6 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 04-DEC-12 | Finding: | 2.8 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |
| Sample date: | 05-NOV-12 | Finding: | 2.7 |
| Chemical: | NITRATE (AS NO3) | Report units: | MG/L |
| Dlr: | 2. | | |

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**B5**
**ESE**
**1/8 - 1/4 Mile**
**Lower**

**CA WELLS 6121**

| | | | |
|---|---|---|---|
| Seq: | 6121 | Prim sta c: | 05S/09W-05R01 S |
| Frds no: | 3010046012 | County: | 30 |
| District: | 08 | User id: | TEE |
| System no: | 3010046 | Water type: | G |
| Source nam: | TUSTIN - INACTIVE | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 334600.0 | Longitude: | 1175000.0 |
| Precision: | 8 | Status: | IU |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3010046 | System nam: | City Of Tustin |
| Hqname: | Not Reported | Address: | P.O. BOX 466 |
| City: | TUSTIN | State: | CA |
| Zip: | 92680 | Zip ext: | Not Reported |
| Pop serv: | 52100 | Connection: | 13628 |
| Area serve: | TUSTIN | | |
| Sample date: | 08-MAR-18 | Finding: | 2.6 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 08-MAR-18 | Finding: | 2.6 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 23-MAR-17 | Finding: | 508. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 23-MAR-17 | Finding: | 504. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 544. |

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|---|---|---|---|
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 0.25 |
| Chemical: | TOTAL TRIHALOMETHANES | Report units: | UG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 2.61 |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 06-MAR-17 | Finding: | 839. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 167. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 167. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 2.61 |
| Chemical: | NITRATE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 06-MAR-17 | Finding: | 311. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 90.8 |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 20.4 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 50. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 1.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 82.2 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 06-MAR-17 | Finding: | 118. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 06-MAR-17 | Finding: | 0.18 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |

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|---|---|---|---|
| Sample date: | 06-MAR-17 | Finding: | 5.6 |
| Chemical: | LEAD | Report units: | UG/L |
| Dlr: | 5. | | |
| Sample date: | 11-MAR-15 | Finding: | 2700. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 25-FEB-14 | Finding: | 2970. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 25-FEB-14 | Finding: | 1.33 |
| Chemical: | GROSS ALPHA COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 0.501 |
| Chemical: | RADIUM 228 COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 0.418 |
| Chemical: | RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0 | | |
| Report units: | PCI/L | Dlr: | 0. |
| Sample date: | 25-FEB-14 | Finding: | 0.775 |
| Chemical: | URANIUM COUNTING ERROR | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 1.11 |
| Chemical: | GROSS ALPHA MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 0.3 |
| Chemical: | URANIUM MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 0.2 |
| Chemical: | RADIUM 228 MDA95 | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 0.201 |
| Chemical: | RA-226 OR TOTAL RA BY 903.0 C.E. | Report units: | PCI/L |
| Dlr: | 0. | | |
| Sample date: | 25-FEB-14 | Finding: | 1.12 |
| Chemical: | URANIUM (PCI/L) | Report units: | PCI/L |
| Dlr: | 1. | | |
| Sample date: | 20-FEB-13 | Finding: | 811. |
| Chemical: | SPECIFIC CONDUCTANCE | Report units: | US |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 2870. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |
| Sample date: | 20-FEB-13 | Finding: | 161. |
| Chemical: | ALKALINITY (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 161. |
| Chemical: | BICARBONATE ALKALINITY | Report units: | MG/L |

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|---|---|---|---|
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 0.36 |
| Chemical: | TOTAL ORGANIC CARBON (TOC) | Report units: | MG/L |
| Dlr: | 0.3 | | |
| Sample date: | 20-FEB-13 | Finding: | 269. |
| Chemical: | HARDNESS (TOTAL) AS CACO3 | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 82. |
| Chemical: | CALCIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 15.6 |
| Chemical: | MAGNESIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 51. |
| Chemical: | SODIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 1.9 |
| Chemical: | POTASSIUM | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 73.4 |
| Chemical: | CHLORIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 114. |
| Chemical: | SULFATE | Report units: | MG/L |
| Dlr: | 0.5 | | |
| Sample date: | 20-FEB-13 | Finding: | 0.16 |
| Chemical: | FLUORIDE (F) (NATURAL-SOURCE) | Report units: | MG/L |
| Dlr: | 0.1 | | |
| Sample date: | 20-FEB-13 | Finding: | 470. |
| Chemical: | TOTAL DISSOLVED SOLIDS | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 0.2 |
| Chemical: | TURBIDITY, LABORATORY | Report units: | NTU |
| Dlr: | 0.1 | | |
| Sample date: | 20-FEB-13 | Finding: | 0.16 |
| Chemical: | BROMIDE | Report units: | MG/L |
| Dlr: | 0. | | |
| Sample date: | 20-FEB-13 | Finding: | 7.9 |
| Chemical: | PH, LABORATORY | Report units: | Not Reported |
| Dlr: | 0. | | |
| Sample date: | 29-FEB-12 | Finding: | 3200. |
| Chemical: | NITRATE + NITRITE (AS N) | Report units: | MG/L |
| Dlr: | 0.4 | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **6**<br>**NW**<br>**1/4 - 1/2 Mile**<br>**Higher** | **CA WELLS** | **CADWR9000005435** |

| | | | |
|---|---|---|---|
| State Well #: | 05S09W05B001S | Station ID: | 5652 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

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|---|---|---|
| **C7**<br>**South**<br>**1/4 - 1/2 Mile**<br>**Lower** | **FED USGS** | **USGS40000137962** |

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W05R001S | Type: | Well |
| Description: | Not Reported | HUC: | 18070204 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | Not Reported |
| Well Depth Units: | Not Reported | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

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| **C8**<br>**South**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CAUSGSN00000218** |

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|---|---|---|
| **D9**<br>**WSW**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADWR9000005405** |

| | | | |
|---|---|---|---|
| State Well #: | 05S09W05L001S | Station ID: | 47348 |
| Well Name: | SC-5/MP1 | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Observation | | |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 1476 | Well Completion Rpt #: | 344385,86 |

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|---|---|---|
| **D10**<br>**WSW**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADWR9000005406** |

| | | | |
|---|---|---|---|
| State Well #: | Not Reported | Station ID: | 47349 |
| Well Name: | SC-5/MP10 | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Observation | | |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 1476 | Well Completion Rpt #: | 344385,86 |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **D11**<br>**WSW**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADWR9000005407** |

| | | | |
|---|---|---|---|
| State Well #: | Not Reported | Station ID: | 47350 |
| Well Name: | SC-5/MP5 | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Observation | | |
| Well Type: | Part of a nested/multi-completion well | | |
| Well Depth: | 1476 | Well Completion Rpt #: | 344385,86 |

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| | | |
|---|---|---|
| **C12**<br>**SSE**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADDW0000014012** |

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| | | |
|---|---|---|
| **E13**<br>**NNW**<br>**1/4 - 1/2 Mile**<br>**Higher** | **CA WELLS** | **CAUSGSN00001229** |

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| | | |
|---|---|---|
| **C14**<br>**SSE**<br>**1/4 - 1/2 Mile**<br>**Lower** | **CA WELLS** | **CADWR0000030503** |

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| | | |
|---|---|---|
| **E15**<br>**NNW**<br>**1/4 - 1/2 Mile**<br>**Higher** | **FED USGS** | **USGS40000138060** |

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W05B003S | Type: | Well |
| Description: | Not Reported | HUC: | Not Reported |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | 500 |
| Well Depth Units: | ft | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 2000-11-07 |
| Feet below surface: | 156.8 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **F16**<br>**NE**<br>**1/4 - 1/2 Mile**<br>**Higher** | **CA WELLS** | **CAUSGSN00007935** |

**F17**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS40000138059**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W04D002S | Type: | Well |
| Description: | Not Reported | HUC: | Not Reported |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | Not Reported |
| Well Depth Units: | Not Reported | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

**F18**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**FED USGS** **USGS40000138047**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W04D001S | Type: | Well |
| Description: | Not Reported | HUC: | 18070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | Not Reported |
| Well Depth Units: | Not Reported | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

**F19**
**NE**
**1/4 - 1/2 Mile**
**Higher**

**CA WELLS** **CADWR9000005440**

| | | | |
|---|---|---|---|
| State Well #: | 05S09W04D003S | Station ID: | 25140 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

| Map ID<br>Direction<br>Distance<br>Elevation | | Database | EDR ID Number |
|---|---|---|---|
| **E20**<br>**NW**<br>**1/4 - 1/2 Mile**<br>**Higher** | | **CA WELLS** | **CADWR9000005442** |

| | | | |
|---|---|---|---|
| State Well #: | 05S09W05B003S | Station ID: | 27289 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

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| | | | |
|---|---|---|---|
| **F21**<br>**NE**<br>**1/4 - 1/2 Mile**<br>**Higher** | | **CA WELLS** | **CADDW0000019236** |

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| | | | |
|---|---|---|---|
| **F22**<br>**NE**<br>**1/4 - 1/2 Mile**<br>**Higher** | | **CA WELLS** | **CADDW0000021707** |

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| | | | |
|---|---|---|---|
| **F23**<br>**NE**<br>**1/2 - 1 Mile**<br>**Higher** | | **CA WELLS** | **CADWR0000027582** |

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| | | | |
|---|---|---|---|
| **F24**<br>**NE**<br>**1/2 - 1 Mile**<br>**Higher** | | **CA WELLS** | **CADDW0000001625** |

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| | | | | |
|---|---|---|---|---|
| **25**<br>**North**<br>**1/2 - 1 Mile**<br>**Higher** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083001548T<br>Not Reported<br>Not Reported<br>Not Reported<br>100<br>08/18/1998 | **AQUIFLOW** | **65140** |

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| | | | |
|---|---|---|---|
| **G26**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Higher** | | **CA WELLS** | **CADWR0000033531** |

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| | | | |
|---|---|---|---|
| **G27**<br>**ENE**<br>**1/2 - 1 Mile**<br>**Higher** | | **FED USGS** | **USGS40000138028** |

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W04C001S | Type: | Well |
| Description: | Not Reported | HUC: | 18070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |

| | | | |
|---|---|---|---|
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Alluvium | Aquifer Type: | Unconfined single aquifer |
| Construction Date: | 19610214 | Well Depth: | 850 |
| Well Depth Units: | ft | Well Hole Depth: | 863 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 2 | Level reading date: | 2004-03-08 |
| Feet below surface: | 213 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

| | | | |
|---|---|---|---|
| Level reading date: | 1999-05-04 | Feet below surface: | 171 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

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**G28**
**ENE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CAUSGSN00018322**

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**29**
**ENE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000017311**

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**H30**
**NW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000011528**

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**H31**
**NW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CAPFAS000000115**

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**32**
**SSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADWR9000005379**

| | | | |
|---|---|---|---|
| State Well #: | 05S09W08B002S | Station ID: | 38723 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

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**H33**
**NW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADDW0000015524**

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **H34**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CAUSGSN00013019** |
| **H35**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CAUSGS000001814** |
| **H36**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS40000138097** |

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 004S009W32P002S | Type: | Well |
| Description: | Not Reported | HUC: | 18070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Alluvium | Aquifer Type: | Unconfined single aquifer |
| Construction Date: | 19920818 | Well Depth: | 1300 |
| Well Depth Units: | ft | Well Hole Depth: | 1510 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 3 | Level reading date: | 2004-05-21 |
| Feet below surface: | 228 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |
| Level reading date: | 2003-05-19 | Feet below surface: | 217 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1999-04-26 | Feet below surface: | 167 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

| | | |
|---|---|---|
| **I37**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000137772** |
| **I38**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000125522** |
| **I39**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000047342** |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **H40**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CADWR9000005465** |

| | | | |
|---|---|---|---|
| State Well #: | 04S09W32P001S | Station ID: | 3749 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

| | | |
|---|---|---|
| **I41**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000072190** |
| **I42**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000016684** |
| **I43**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000012506** |
| **I44**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000011144** |
| **I45**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000103160** |
| **I46**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000125188** |
| **I47**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000061947** |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **I48**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000013580** |
| **I49**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000093299** |
| **50**<br>**NW**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CADWR0000034182** |
| **I51**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000014167** |
| **I52**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000097888** |
| **I53**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000058640** |
| **I54**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000059727** |
| **I55**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000008841** |
| **J56**<br>**West**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAUSGSN00015822** |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **I57**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAEDF0000080068** |

**J58**
**West**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000137999**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W07A001S | Type: | Well |
| Description: | NAWQA DATA ENTRY COM + VER 06/15/2000 SDIONNE | | |
| HUC: | 18070203 | Drainage Area: | Not Reported |
| Drainage Area Units: | Not Reported | Contrib Drainage Area: | Not Reported |
| Contrib Drainage Area Unts: | Not Reported | Aquifer: | California Coastal Basin aquifers |
| Formation Type: | Quaternary Alluvium | Aquifer Type: | Confined single aquifer |
| Construction Date: | 19991203 | Well Depth: | 143.5 |
| Well Depth Units: | ft | Well Hole Depth: | 143.5 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 2000-06-08 |
| Feet below surface: | 109.93 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

**I59**
**SE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000021040**

**I60**
**SE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000013675**

**I61**
**SE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000086506**

**K62**
**NNW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADWR0000003969**

**K63**
**NNW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADWR9000005470**

| | | | |
|---|---|---|---|
| State Well #: | 04S09W32K001S | Station ID: | 26235 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |

| | | | |
|---|---|---|---|
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

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**64**
**NNW**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADWR0000009102**

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**L65**
**West**
**1/2 - 1 Mile**
**Lower**

**AQUIFLOW** **34233**

| | |
|---|---|
| Site ID: | 083000043T |
| Groundwater Flow: | Not Reported |
| Shallow Water Depth: | Not Reported |
| Deep Water Depth: | Not Reported |
| Average Water Depth: | 98 |
| Date: | 10/30/1998 |

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**L66**
**West**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000083023**

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**L67**
**West**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000046057**

---

**L68**
**West**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000062010**

---

**M69**
**SE**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000137931**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 005S009W09C002S | Type: | Well |
| Description: | Not Reported | HUC: | Not Reported |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19921222 | Well Depth: | 920 |
| Well Depth Units: | ft | Well Hole Depth: | 1129 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1993-03-25 |
| Feet below surface: | 160 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **N70**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Higher** | **CA WELLS** | **CADWR9000005485** |

| | | | |
|---|---|---|---|
| State Well #: | 04S09W33M001S | Station ID: | 3751 |
| Well Name: | Not Reported | Basin Name: | Coastal Plain Of Orange County |
| Well Use: | Unknown | Well Type: | Unknown |
| Well Depth: | 0 | Well Completion Rpt #: | Not Reported |

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| | | |
|---|---|---|
| **M71**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CALLNL000000349** |

| | | | |
|---|---|---|---|
| Well ID: | 100784 | Well Type: | MUNICIPAL |
| Source: | Lawrence Livermore National Laboratory | | |
| Other Name: | 05S/09W-09C02 S | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | Not Reported | | |
| GeoTracker Data: | Not Reported | | |

| | | | |
|---|---|---|---|
| Chemical: | Krypton | Results: | .000000108692 |
| Units: | cm3STP/g | Date: | 05/08/2001 |
| Chemical: | Tritium (Hydrogen 3) | Results: | 3.34 |
| Units: | pCi/L | Date: | 10/30/2001 |
| Chemical: | Neon | Results: | .000000669953 |
| Units: | cm3STP/g | Date: | 05/08/2001 |
| Chemical: | Helium-3/Helium-4 | Results: | .00000184088 |
| Units: | atom ratio | Date: | 05/08/2001 |
| Chemical: | Argon | Results: | .000598032 |
| Units: | cm3STP/g | Date: | 05/08/2001 |
| Chemical: | Helium-4 | Results: | .000000339314 |
| Units: | cm3STP/g | Date: | 05/08/2001 |
| Chemical: | Xenon | Results: | .0000000130089 |
| Units: | cm3STP/g | Date: | 05/08/2001 |

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| | | |
|---|---|---|
| **M72**<br>**SE**<br>**1/2 - 1 Mile**<br>**Lower** | **CA WELLS** | **CAUSGSN00019432** |

| Map ID<br>Direction<br>Distance<br>Elevation | Database | EDR ID Number |
|---|---|---|
| **N73**<br>**NNE**<br>**1/2 - 1 Mile**<br>**Higher** | **FED USGS** | **USGS40000138117** |

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 004S009W33M001S | Type: | Well |
| Description: | Not Reported | HUC: | 18070203 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | California Coastal Basin aquifers | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | Not Reported | Well Depth: | Not Reported |
| Well Depth Units: | Not Reported | Well Hole Depth: | Not Reported |
| Well Hole Depth Units: | Not Reported | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 62 | Level reading date: | 1986-08-29 |
| Feet below surface: | 227.16 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |
| Level reading date: | 1986-05-06 | Feet below surface: | 220.33 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1986-02-11 | Feet below surface: | 211.60 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1985-11-05 | Feet below surface: | 221.01 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1985-08-17 | Feet below surface: | 219.80 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1985-05-09 | Feet below surface: | 206.55 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1985-04-15 | Feet below surface: | 204.40 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1985-02-13 | Feet below surface: | 197.50 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-10-31 | Feet below surface: | 210.26 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-10-09 | Feet below surface: | 207.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-09-06 | Feet below surface: | 211.20 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-08-07 | Feet below surface: | 204.7 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-07-03 | Feet below surface: | 203.4 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-06-04 | Feet below surface: | 195.7 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

| | | | |
|---|---|---|---|
| Level reading date: | 1984-05-07 | Feet below surface: | 191.7 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-04-02 | Feet below surface: | 187.9 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-03-07 | Feet below surface: | 187.6 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1984-02-15 | Feet below surface: | 185.18 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-11-03 | Feet below surface: | 180.53 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-10-13 | Feet below surface: | 180.4 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-09-01 | Feet below surface: | 190.0 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-08-12 | Feet below surface: | 190.76 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-08-02 | Feet below surface: | 189.0 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-07-05 | Feet below surface: | 182.1 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-06-09 | Feet below surface: | 182.8 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-05-12 | Feet below surface: | 186.6 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-05-11 | Feet below surface: | 185.66 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-04-19 | Feet below surface: | 192.13 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1983-02-09 | Feet below surface: | 202.86 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1982-11-03 | Feet below surface: | 213.28 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1982-07-28 | Feet below surface: | 211.29 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1982-04-29 | Feet below surface: | 200.67 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1982-01-25 | Feet below surface: | 198.48 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1981-11-04 | Feet below surface: | 212.14 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1981-07-30 | Feet below surface: | 199.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

| | | | |
|---|---|---|---|
| Level reading date: | 1981-05-05 | Feet below surface: | 183.32 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1981-02-05 | Feet below surface: | 179.67 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1980-10-28 | Feet below surface: | 183.66 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1980-08-28 | Feet below surface: | 171.14 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1980-06-11 | Feet below surface: | 156.80 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1980-02-08 | Feet below surface: | 201.60 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1979-11-08 | Feet below surface: | 212.24 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1979-07-31 | Feet below surface: | 212.06 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1979-05-01 | Feet below surface: | 195.38 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1979-02-06 | Feet below surface: | 194.96 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1978-10-27 | Feet below surface: | 198.14 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1978-09-27 | Feet below surface: | 200.04 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1976-12-28 | Feet below surface: | 233.20 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1976-10-28 | Feet below surface: | 229.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1976-05-04 | Feet below surface: | 222.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1976-01-07 | Feet below surface: | 218.80 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1975-11-06 | Feet below surface: | 230.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1975-04-30 | Feet below surface: | 216.50 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1975-03-19 | Feet below surface: | 219.70 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1974-10-22 | Feet below surface: | 225.90 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1974-08-30 | Feet below surface: | 228.50 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

| | | | |
|---|---|---|---|
| Level reading date: | 1974-07-03 | Feet below surface: | 228.40 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1974-01-24 | Feet below surface: | 216.80 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1973-11-02 | Feet below surface: | 230.80 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1973-09-12 | Feet below surface: | 230.70 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1973-07-06 | Feet below surface: | 227.60 |
| Feet to sea level: | Not Reported | Note: | Not Reported |
| Level reading date: | 1973-05-10 | Feet below surface: | 214.40 |
| Feet to sea level: | Not Reported | Note: | Not Reported |

---

**74**
**East**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADWR0000026255**

---

**M75**
**SE**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADDW0000002450**

---

**76**
**NE**
**1/2 - 1 Mile**
**Higher**

**CA WELLS** **CADWR0000012064**

---

**77**
**WSW**
**1/2 - 1 Mile**
**Lower**

| | |
|---|---|
| Site ID: | 083002326T |
| Groundwater Flow: | S |
| Shallow Water Depth: | 58.9 |
| Deep Water Depth: | 62.82 |
| Average Water Depth: | Not Reported |
| Date: | 02/26/1999 |

**AQUIFLOW** **66456**

---

**1G**
**North**
**1/2 - 1 Mile**
**Lower**

| | |
|---|---|
| Site ID: | 083001548T |
| Groundwater Flow: | Not Reported |
| Shallow Water Depth: | Not Reported |
| Deep Water Depth: | Not Reported |
| Average Water Depth: | 100 |
| Date: | 08/18/1998 |

**AQUIFLOW** **65140**

---

**2G**
**East**
**0 - 1/8 Mile**
**Lower**

| | |
|---|---|
| Site ID: | 083002492T |
| Groundwater Flow: | Not Reported |
| Shallow Water Depth: | Not Reported |
| Deep Water Depth: | Not Reported |
| Average Water Depth: | 200 |
| Date: | 10/13/1994 |

**AQUIFLOW** **68223**

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance<br>Elevation | | | Database | EDR ID Number |
|---|---|---|---|---|
| **3G**<br>**West**<br>**1/2 - 1 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083000043T<br>Not Reported<br>Not Reported<br>Not Reported<br>98<br>10/30/1998 | **AQUIFLOW** | **34233** |
| **4G**<br>**SW**<br>**0 - 1/8 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083001594T<br>Not Reported<br>Not Reported<br>Not Reported<br>30<br>11/30/1990 | **AQUIFLOW** | **38942** |
| **5G**<br>**WSW**<br>**1/2 - 1 Mile**<br>**Lower** | Site ID:<br>Groundwater Flow:<br>Shallow Water Depth:<br>Deep Water Depth:<br>Average Water Depth:<br>Date: | 083002326T<br>S<br>58.9<br>62.82<br>Not Reported<br>02/26/1999 | **AQUIFLOW** | **66456** |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| Map ID<br>Direction<br>Distance | Database | EDR ID Number |
|---|---|---|

**1**
**WSW**
**1/4 - 1/2 Mile**

**OIL_GAS** **CAOG14000006214**

| | | | |
|---|---|---|---|
| API #: | 0405901150 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | Dry Hole |
| Lease Name: | Orangeana | Field Name: | Any Field |
| Area Name: | Any Area | GIS Source: | hud |
| Confidential Well: | N | Directionally Drilled: | N |
| Spud Date: | Not Reported | | |

---

**2**
**WNW**
**1/2 - 1 Mile**

**OIL_GAS** **CAOG14000006323**

| | | | |
|---|---|---|---|
| API #: | 0405901266 | Well #: | 1 |
| Well Status: | Plugged | Well Type: | Dry Hole |
| Lease Name: | Lease by Trustees Dev. Association | | |
| Field Name: | Any Field | Area Name: | Any Area |
| GIS Source: | hud | Confidential Well: | N |
| Directionally Drilled: | N | Spud Date: | Not Reported |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 92705 | 64 | 5 |

Federal EPA Radon Zone for ORANGE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for ORANGE COUNTY, CA

Number of sites tested: 30

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.763 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

**STREET AND ADDRESS INFORMATION**

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# Historical Topographic Maps
# & Aerial Photographs

Mcdonalds Santa Ana

2109 E Santa Clara Avenue

Santa Ana, CA 92705

Inquiry Number: 6703026.4

October 14, 2021

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

10/14/21

| Site Name: | Client Name: |
|---|---|
| Mcdonalds Santa Ana | Universal Engineering Sciences |
| 2109 E Santa Clara Avenue | 695 Edison Way |
| Santa Ana, CA 92705 | Reno, NV 89502 |
| EDR Inquiry # 6703026.4 | Contact: Alexia Mackey |

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Universal Engineering Sciences were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

| *Search Results:* | | *Coordinates:* | |
|---|---|---|---|
| **P.O.#** | NA | **Latitude:** | 33.767502 33° 46' 3" North |
| **Project:** | McDonald s Santa Ana | **Longitude:** | -117.836719 -117° 50' 12" West |
| | | **UTM Zone:** | Zone 11 North |
| | | **UTM X Meters:** | 422519.88 |
| | | **UTM Y Meters:** | 3736692.01 |
| | | **Elevation:** | 193.00' above sea level |

**Maps Provided:**

| | |
|---|---|
| 2012 | 1932 |
| 1981 | 1902 |
| 1972 | 1901 |
| 1964, 1965 | 1898 |
| 1950 | 1896 |
| 1948, 1949 | |
| 1942 | |
| 1935 | |

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## *Topo Sheet Key*

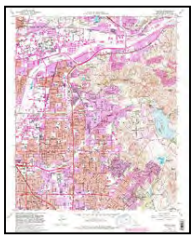
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets

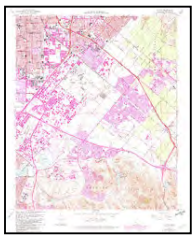
Orange
2012
7.5-minute, 24000

Tustin
2012
7.5-minute, 24000

### 1981 Source Sheets



Orange
1981
7.5-minute, 24000
Aerial Photo Revised 1978



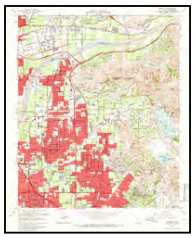
Tustin
1981
7.5-minute, 24000
Aerial Photo Revised 1978

### 1972 Source Sheets

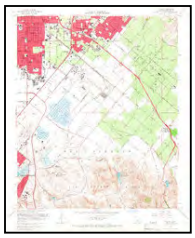
Tustin
1972
7.5-minute, 24000
Aerial Photo Revised 1972

Orange
1972
7.5-minute, 24000
Aerial Photo Revised 1972

### 1964, 1965 Source Sheets



Orange
1964
7.5-minute, 24000
Aerial Photo Revised 1963



Tustin
1965
7.5-minute, 24000
Aerial Photo Revised 1963

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1950 Source Sheets

Tustin
1950
7.5-minute, 24000
Aerial Photo Revised 1946

Orange
1950
7.5-minute, 24000
Aerial Photo Revised 1946

### 1948, 1949 Source Sheets

Tustin
1948
7.5-minute, 24000
Aerial Photo Revised 1946

Orange
1949
7.5-minute, 24000
Aerial Photo Revised 1946

### 1942 Source Sheets

SANTA ANA
1942
15-minute, 50000

ANAHEIM
1942
15-minute, 50000

### 1935 Source Sheets

Orange
1935
7.5-minute, 31680

Tustin
1935
7.5-minute, 31680

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1932 Source Sheets

Orange
1932
7.5-minute, 31680

Tustin
1932
7.5-minute, 31680

### 1902 Source Sheets

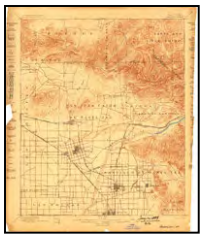
Corona
1902
30-minute, 125000

### 1901 Source Sheets

Santa Ana
1901
15-minute, 62500

Anaheim
1901
15-minute, 62500

### 1898 Source Sheets



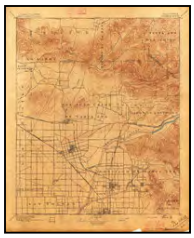
Anaheim
1898
15-minute, 62500

## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1896 Source Sheets

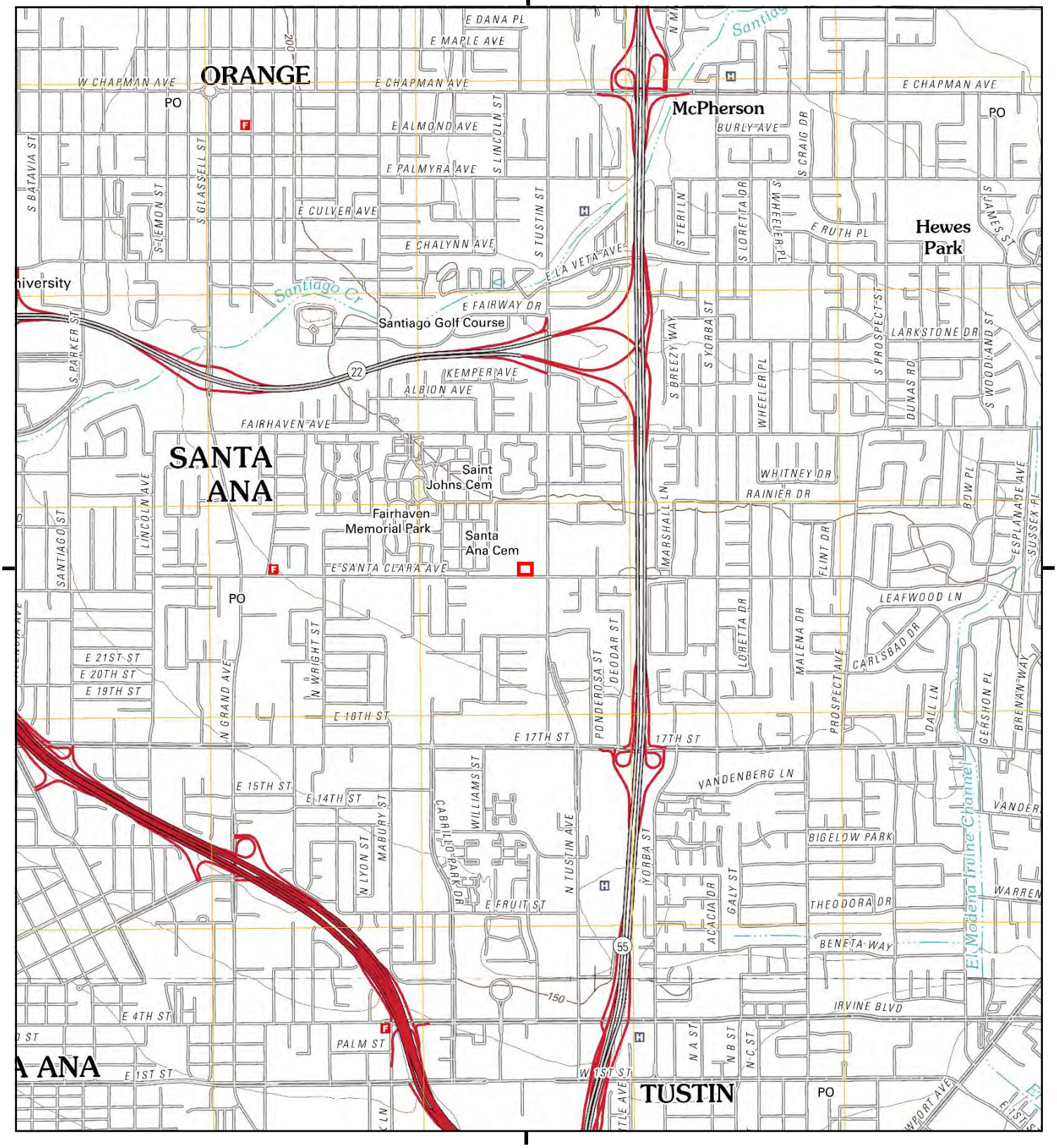
Santa Ana
1896
15-minute, 62500



Anaheim
1896
15-minute, 62500

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

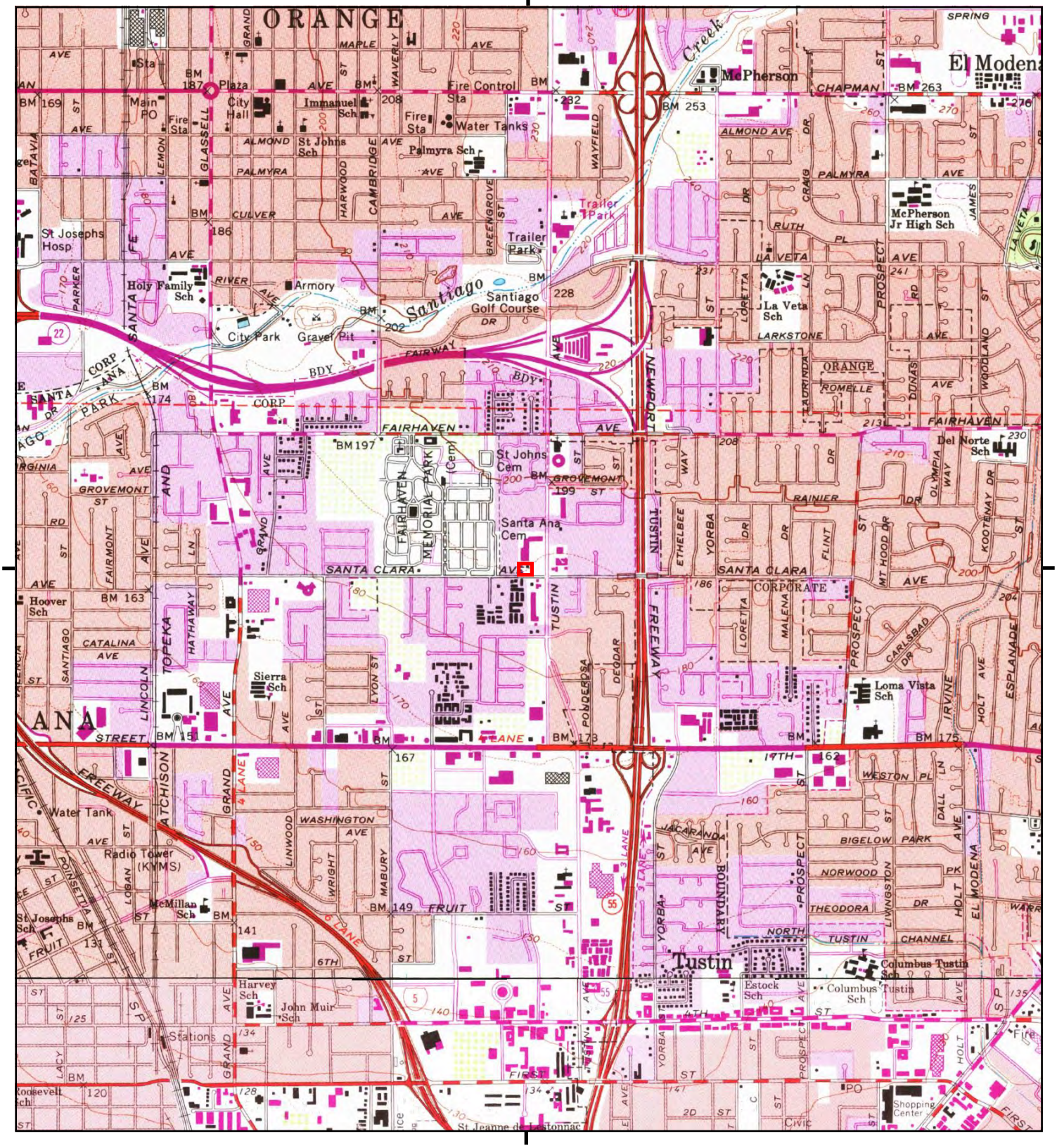
TP, Orange, 2012, 7.5-minute
S, Tustin, 2012, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1981




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

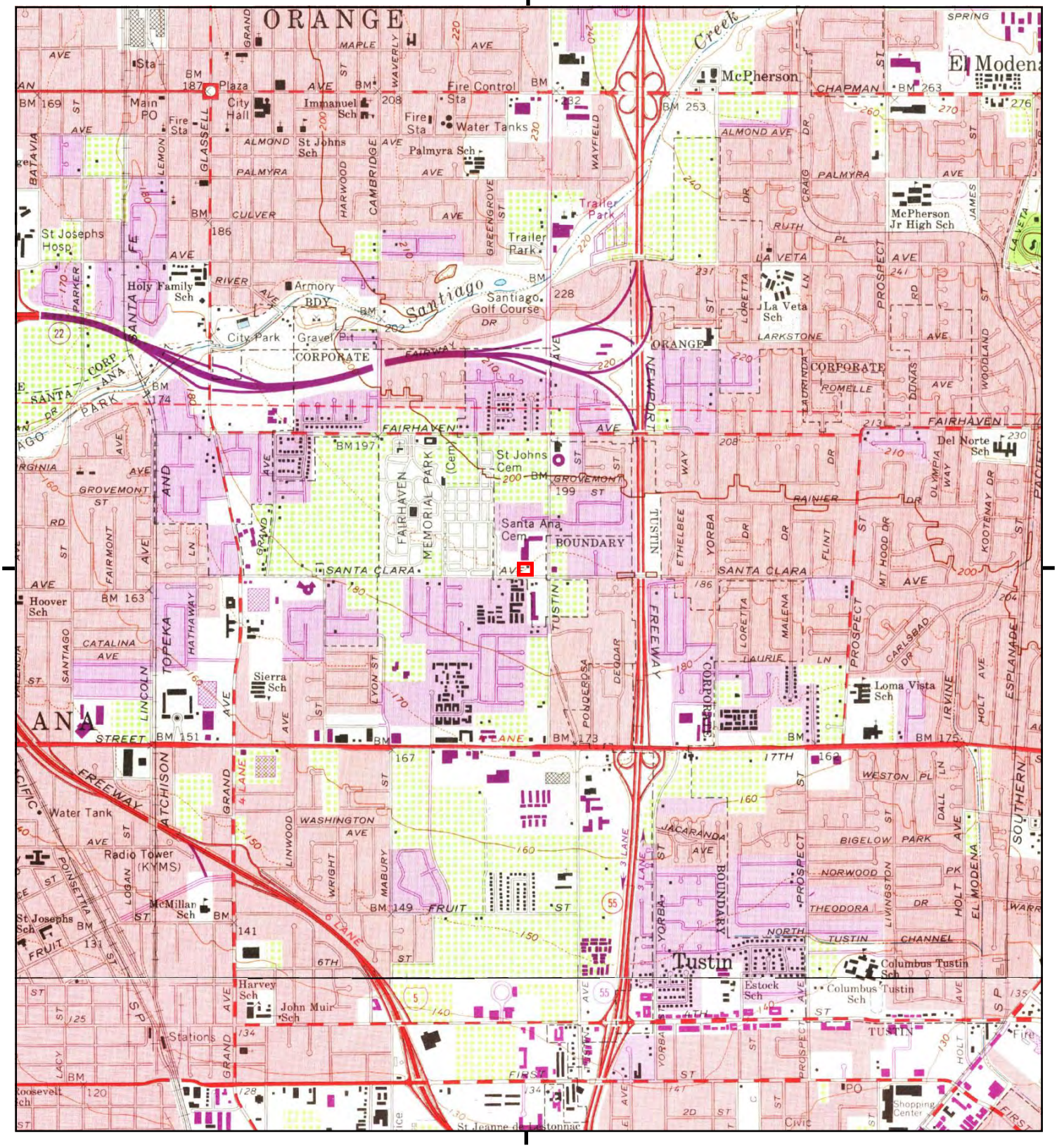
TP, Orange, 1981, 7.5-minute
S, Tustin, 1981, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1972

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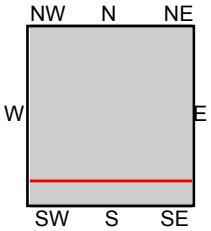


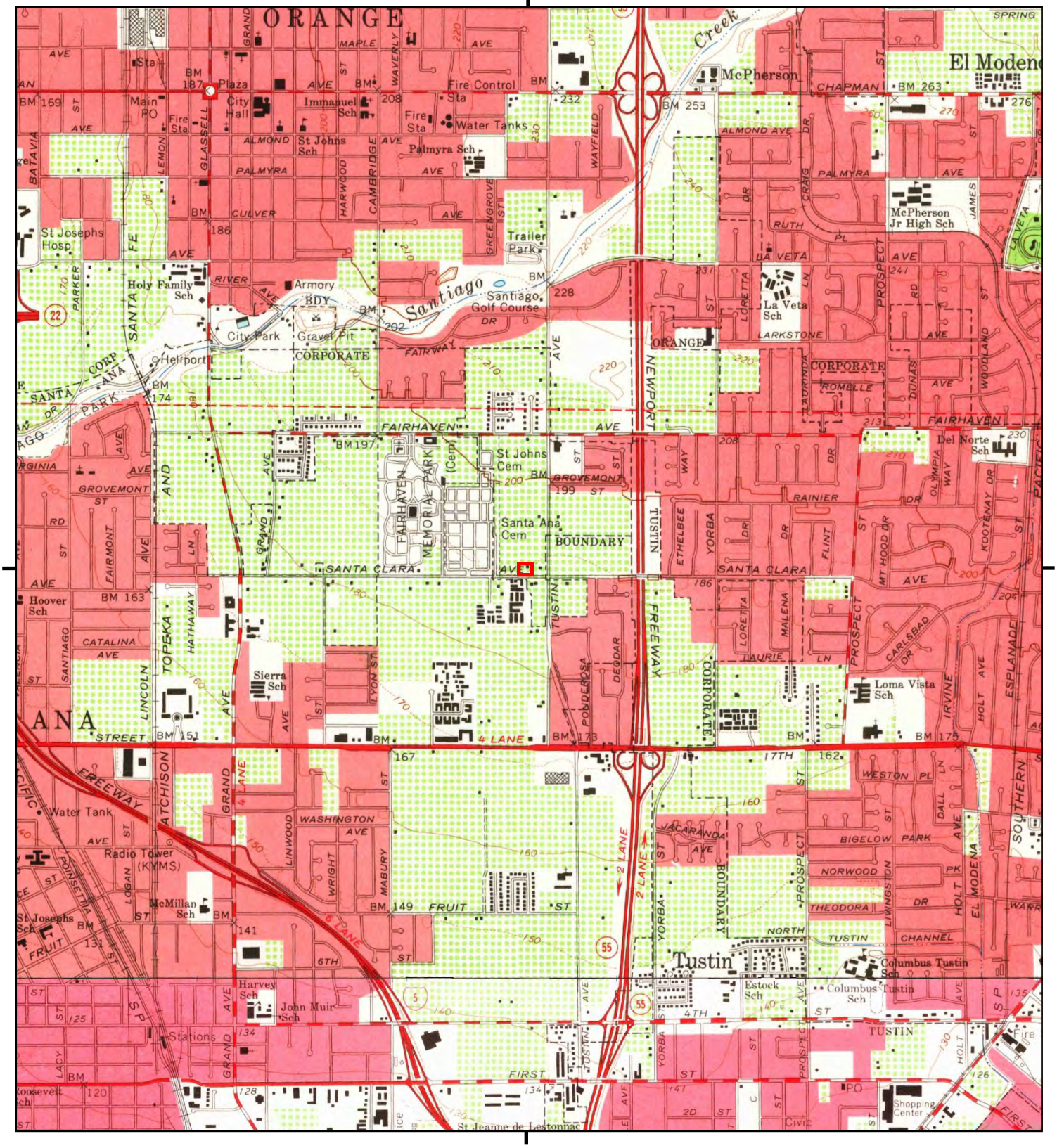

TP, Orange, 1972, 7.5-minute
S, Tustin, 1972, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1964, 1965

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W E
SW S SE

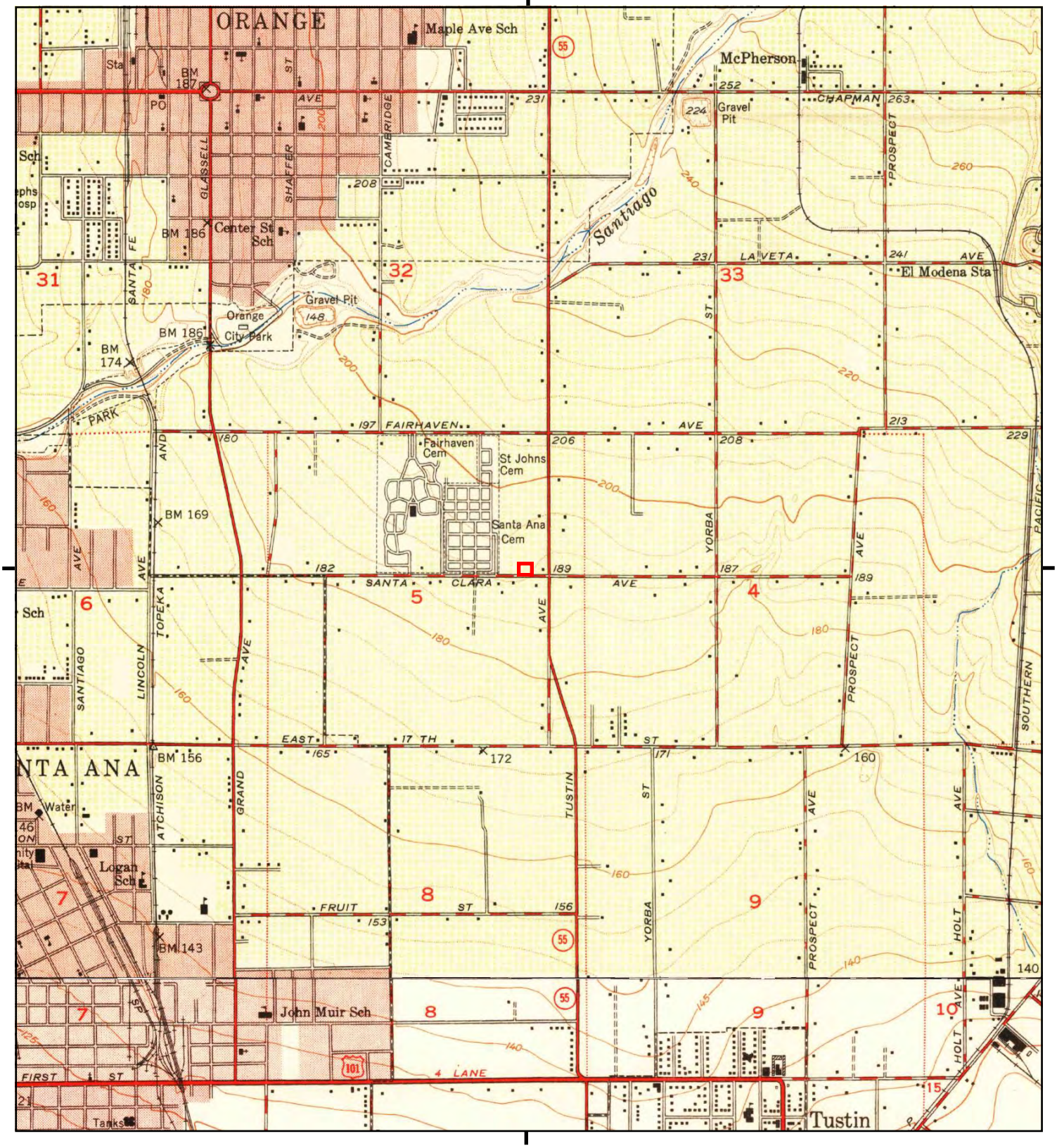
TP, Orange, 1964, 7.5-minute
S, Tustin, 1965, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1950

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0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

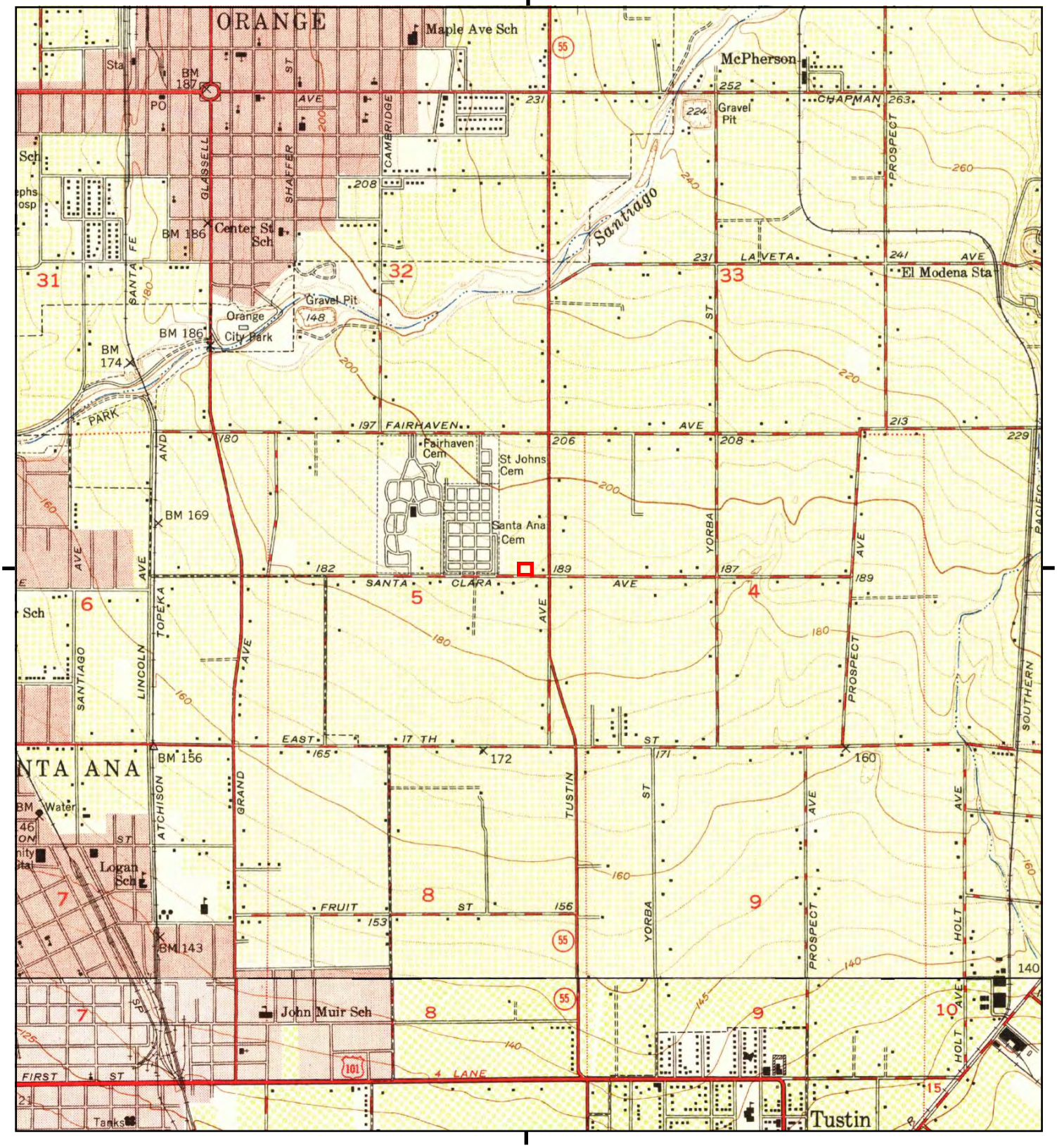
TP, Orange, 1950, 7.5-minute
S, Tustin, 1950, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1948, 1949

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W E
SW S SE

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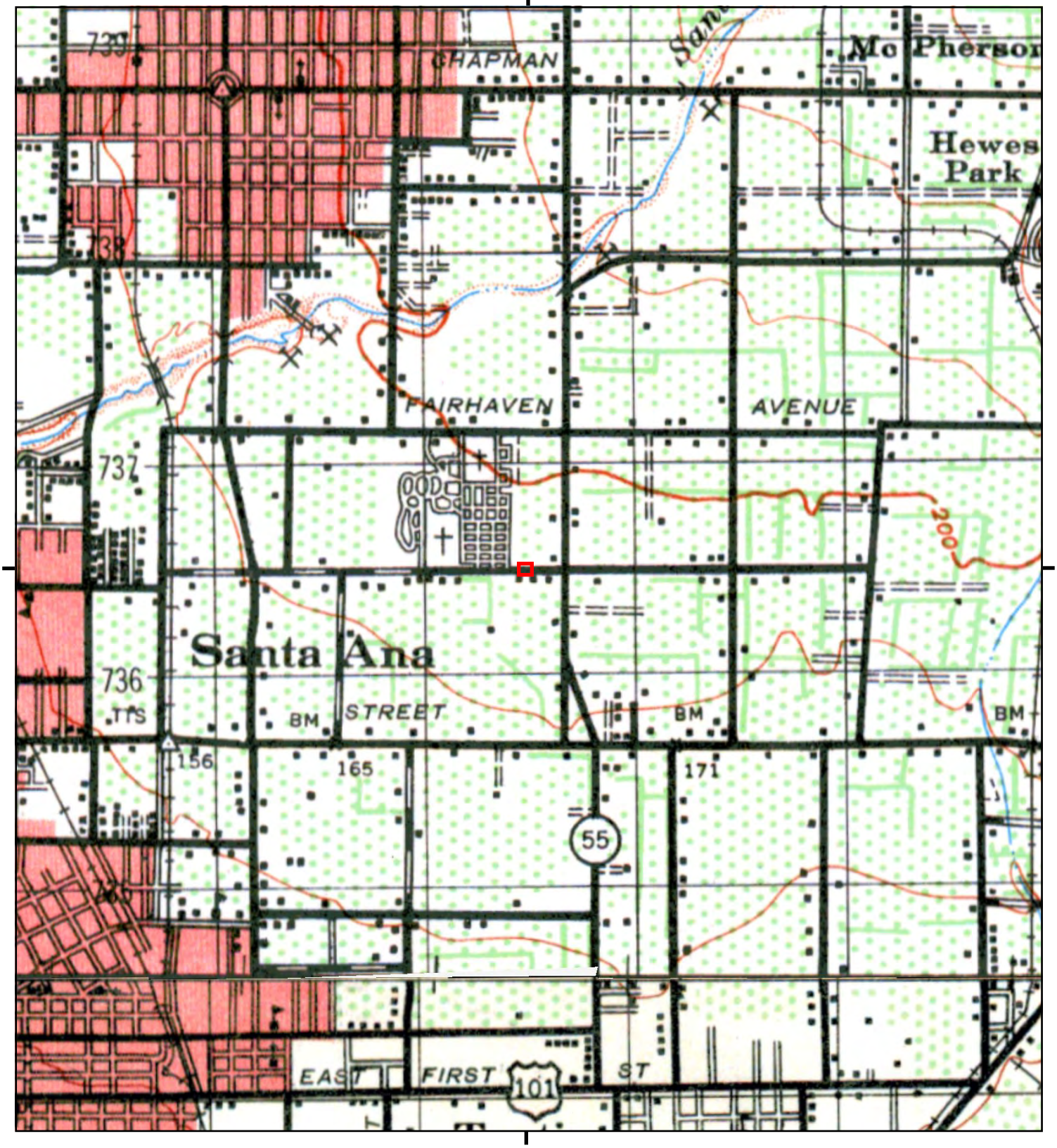
S, Tustin, 1948, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1942

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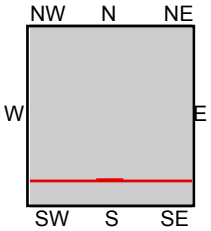


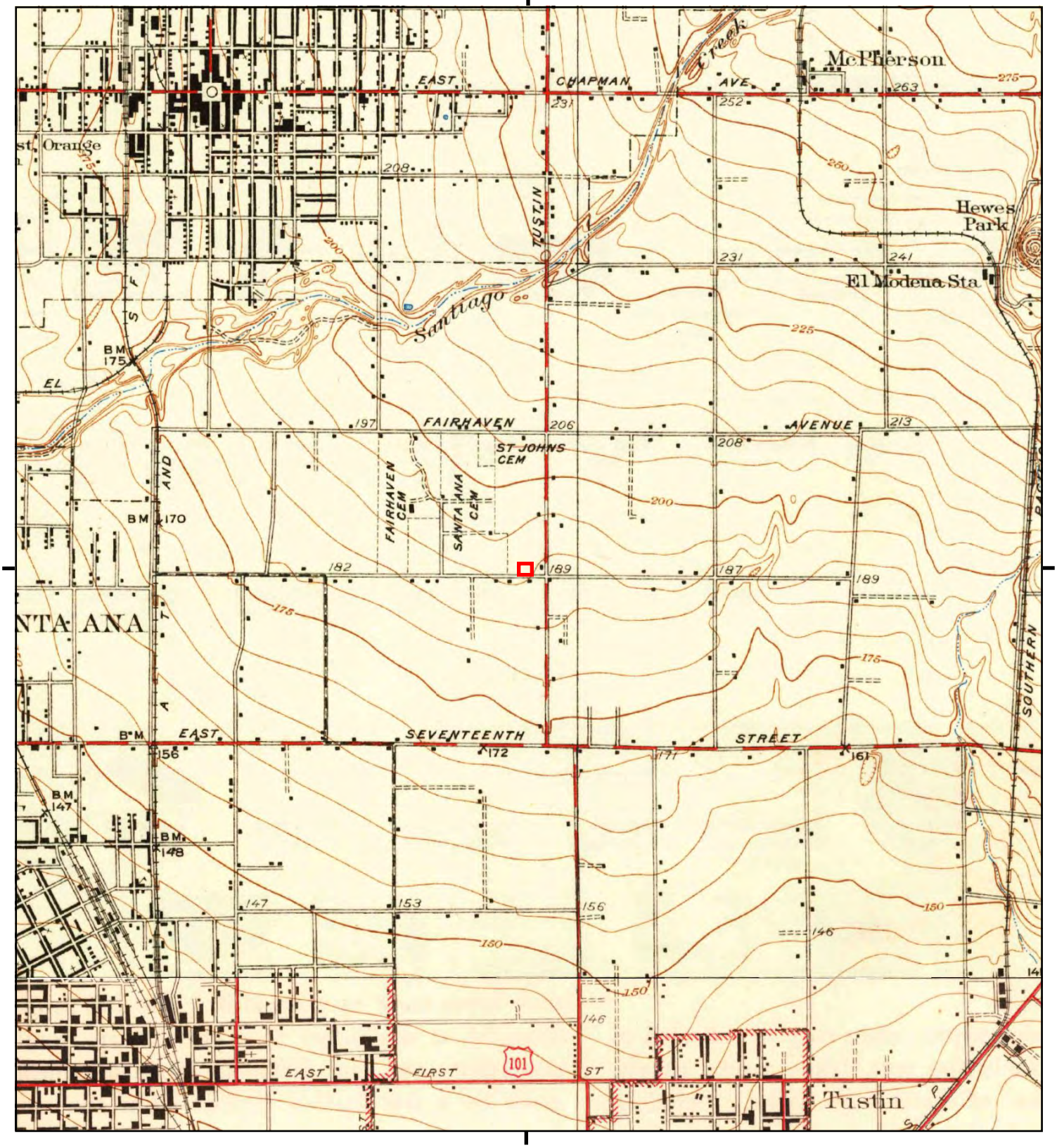

TP, ANAHEIM, 1942, 15-minute
S, SANTA ANA, 1942, 15-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1935

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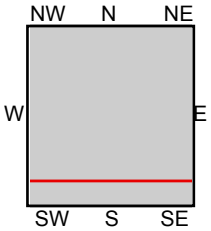


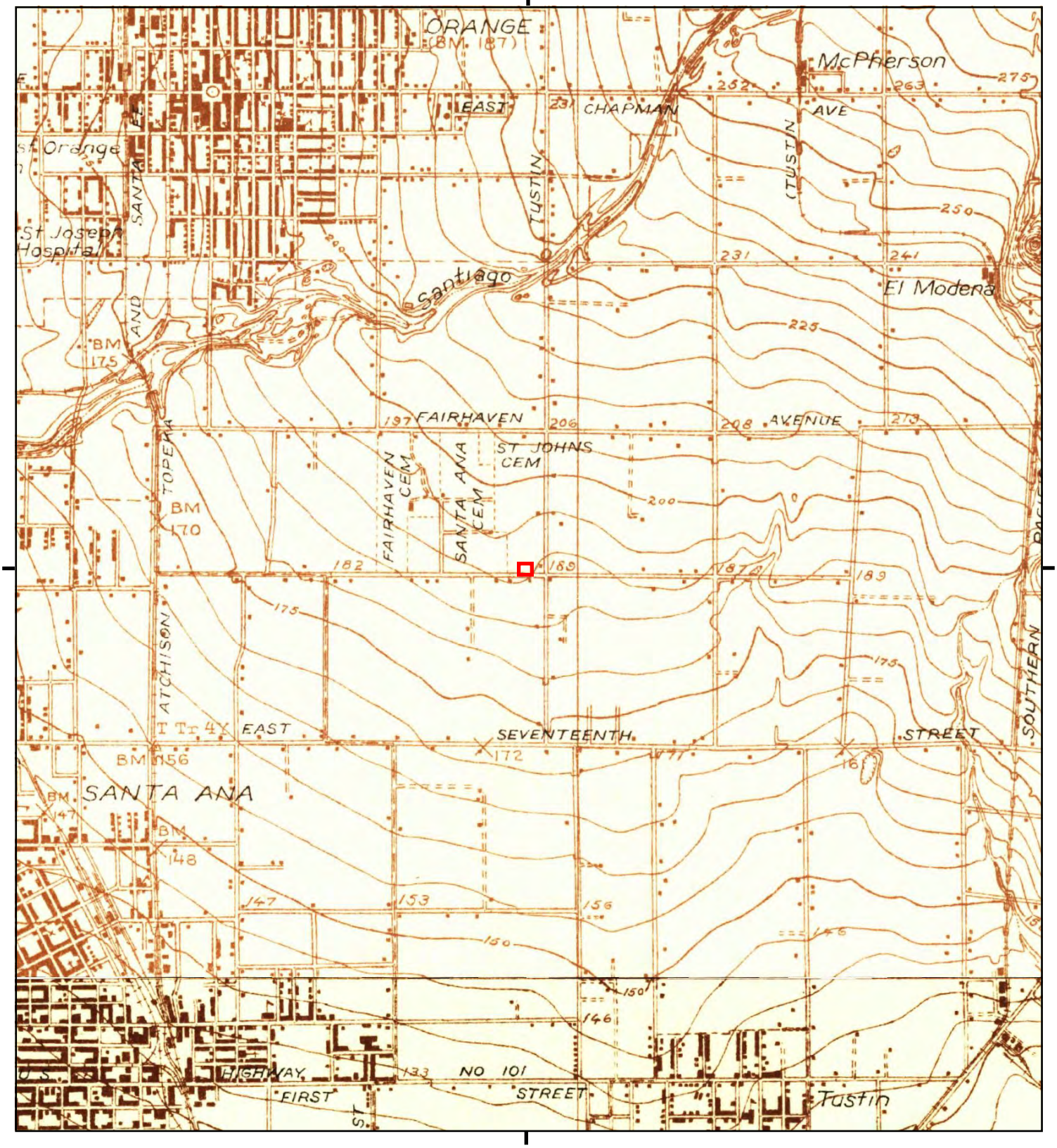

TP, Orange, 1935, 7.5-minute
S, Tustin, 1935, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1932

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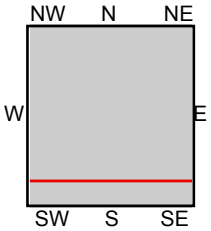


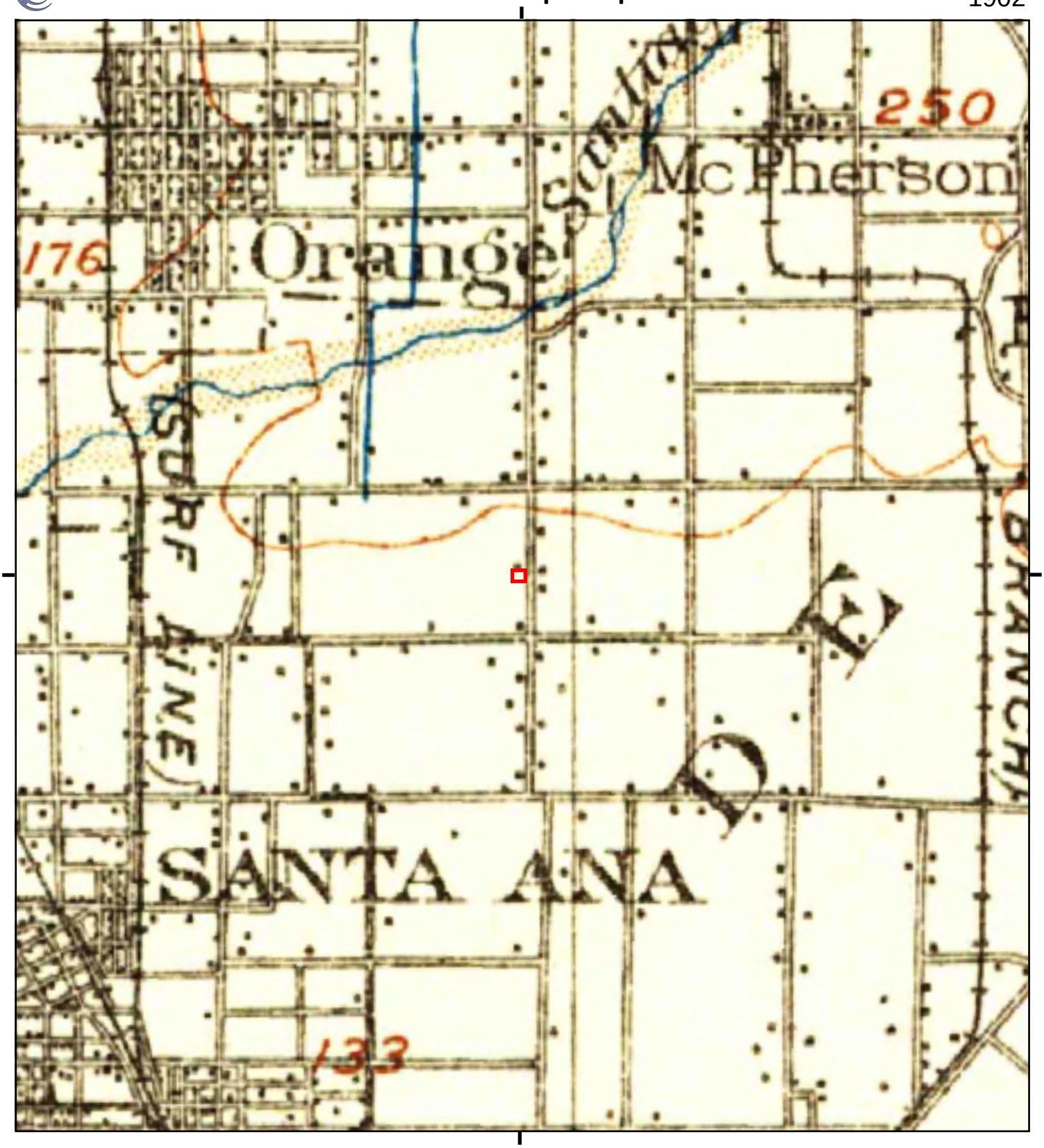

TP, Orange, 1932, 7.5-minute
S, Tustin, 1932, 7.5-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1902

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NW N NE
W E
SW S SE

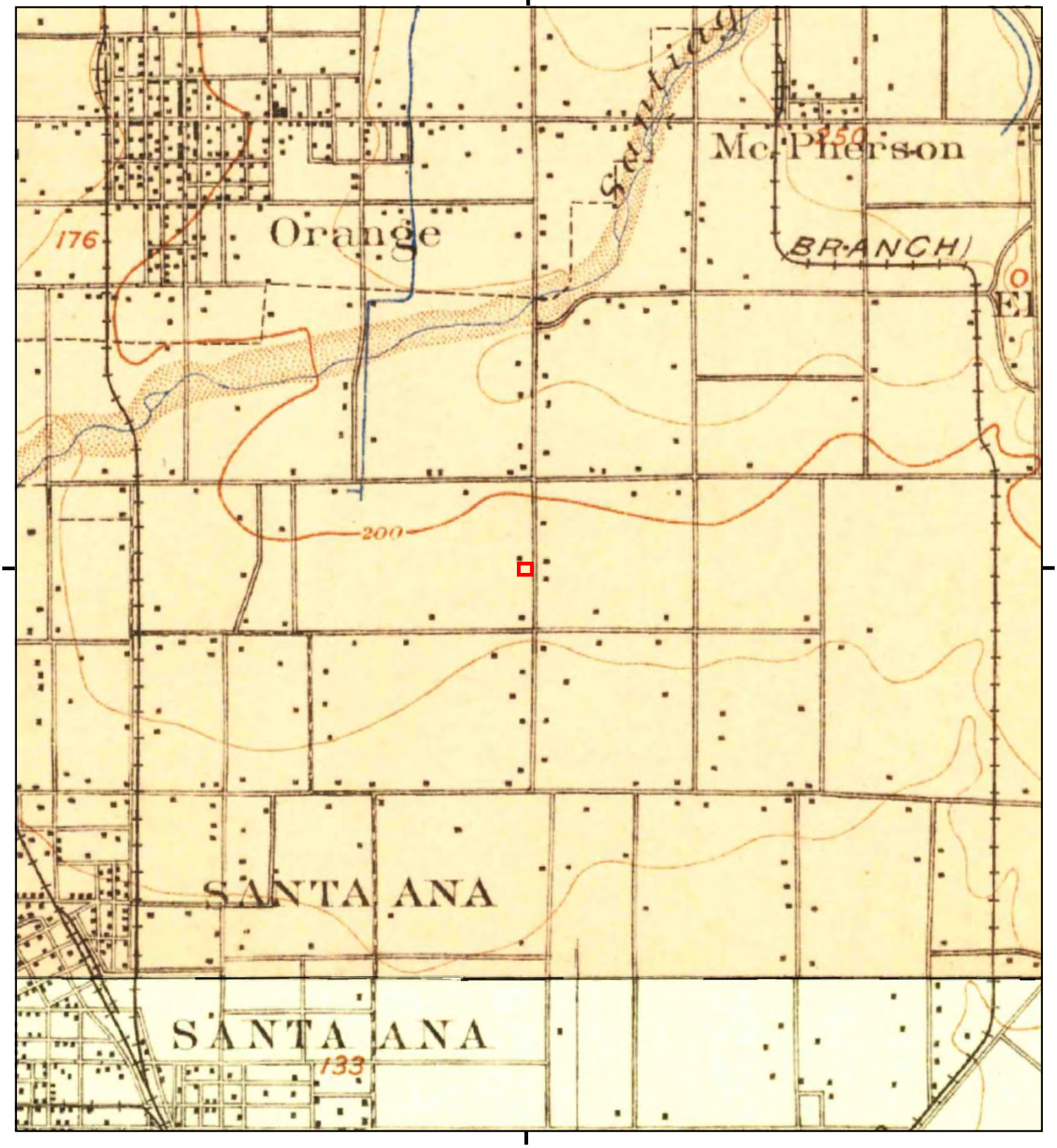
TP, Corona, 1902, 30-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1901

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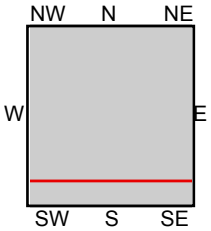


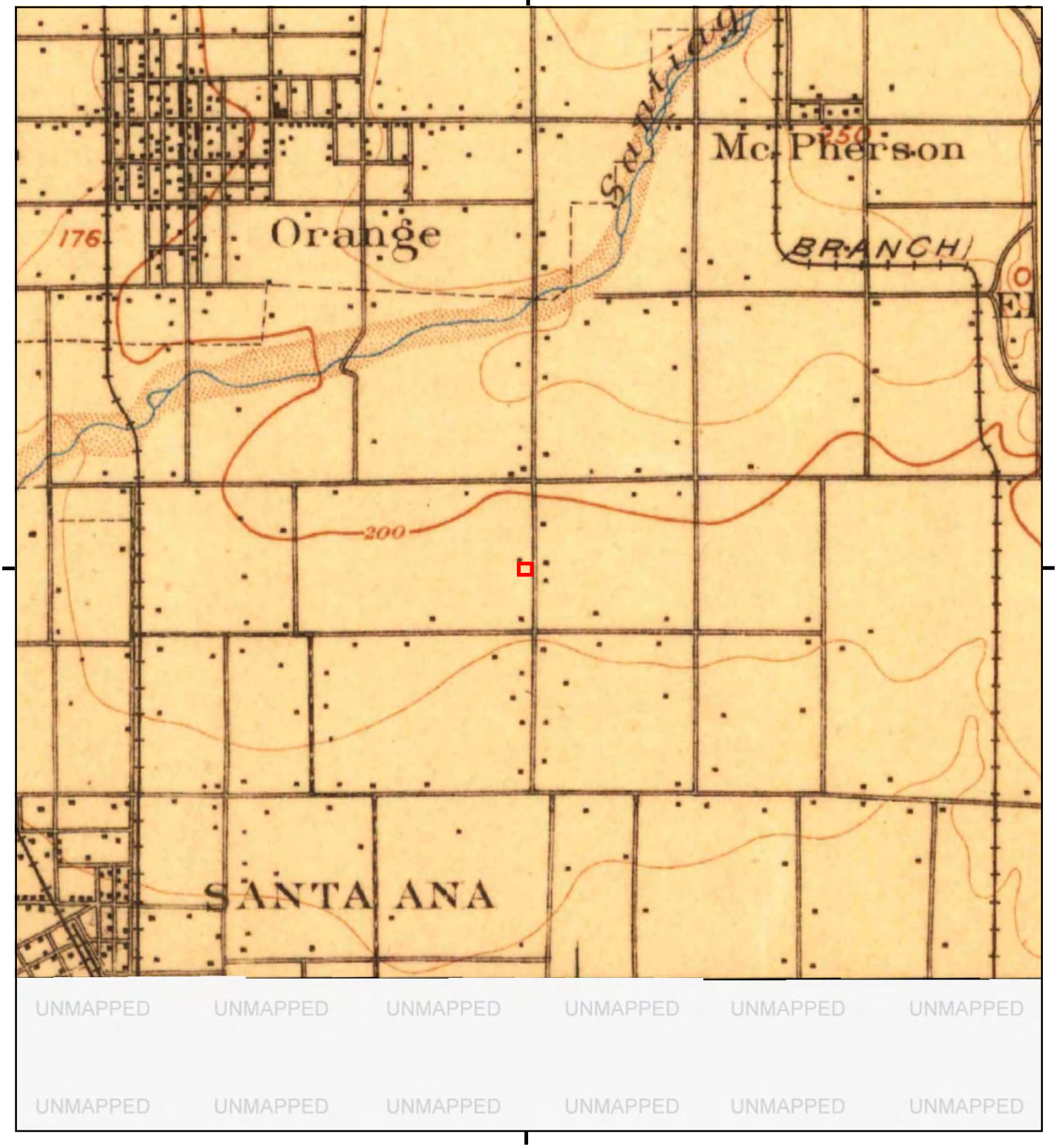

TP, Anaheim, 1901, 15-minute
S, Santa Ana, 1901, 15-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1898

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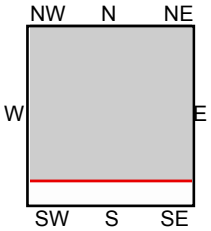


TP, Anaheim, 1898, 15-minute

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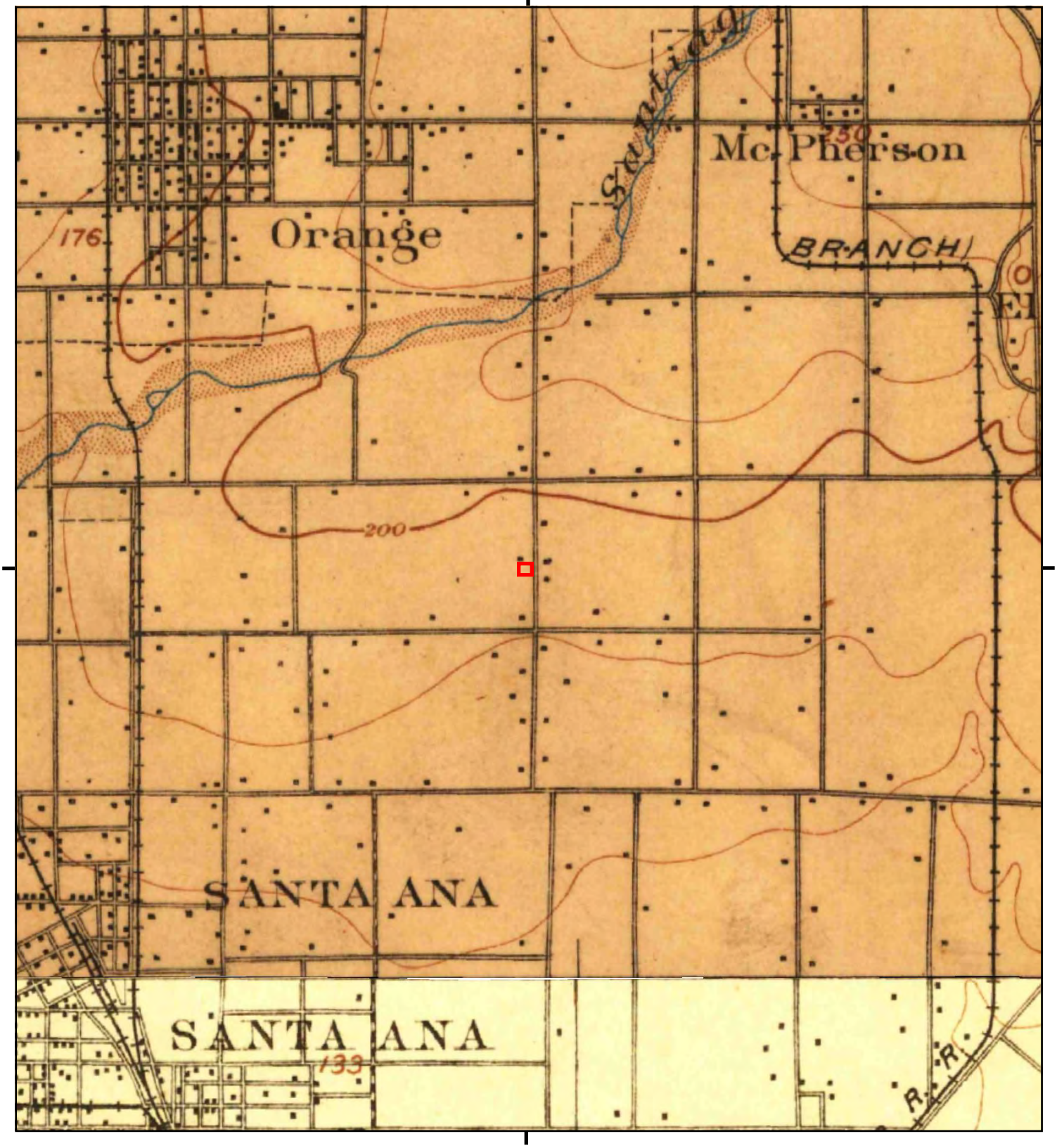
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

# Historical Topo Map

1896

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NW N NE
W E
SW S SE

TP, Anaheim, 1896, 15-minute
S, Santa Ana, 1896, 15-minute

SITE NAME: Mcdonalds Santa Ana
ADDRESS: 2109 E Santa Clara Avenue
Santa Ana, CA 92705
CLIENT: Universal Engineering Sciences

N

**Mcdonalds Santa Ana**

2109 E Santa Clara Avenue

Santa Ana, CA 92705

Inquiry Number: 6703026.8

October 14, 2021

# The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Aerial Photo Decade Package

10/14/21

**Site Name:**

Mcdonalds Santa Ana
2109 E Santa Clara Avenue
Santa Ana, CA 92705
EDR Inquiry # 6703026.8

**Client Name:**

Universal Engineering Sciences
695 Edison Way
Reno, NV 89502
Contact: Alexia Mackey

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| *Year* | *Scale* | *Details* | *Source* |
|---|---|---|---|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2005 | 1"=500' | Flight Year: 2005 | USDA/NAIP |
| 2002 | 1"=500' | Acquisition Date: January 01, 2002 | USGS/DOQQ |
| 1995 | 1"=500' | Acquisition Date: October 03, 1995 | USGS/DOQQ |
| 1989 | 1"=500' | Flight Date: August 03, 1989 | USDA |
| 1985 | 1"=500' | Flight Date: September 13, 1985 | USDA |
| 1977 | 1"=500' | Flight Date: January 18, 1977 | EDR Proprietary Brewster Pacific |
| 1972 | 1"=500' | Flight Date: October 30, 1972 | USGS |
| 1966 | 1"=500' | Flight Date: April 16, 1966 | USGS |
| 1963 | 1"=500' | Flight Date: February 28, 1963 | USGS |
| 1952 | 1"=500' | Flight Date: December 12, 1952 | USDA |
| 1946 | 1"=500' | Flight Date: December 29, 1946 | USGS |
| 1938 | 1"=500' | Flight Date: June 21, 1938 | USDA |

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EDR

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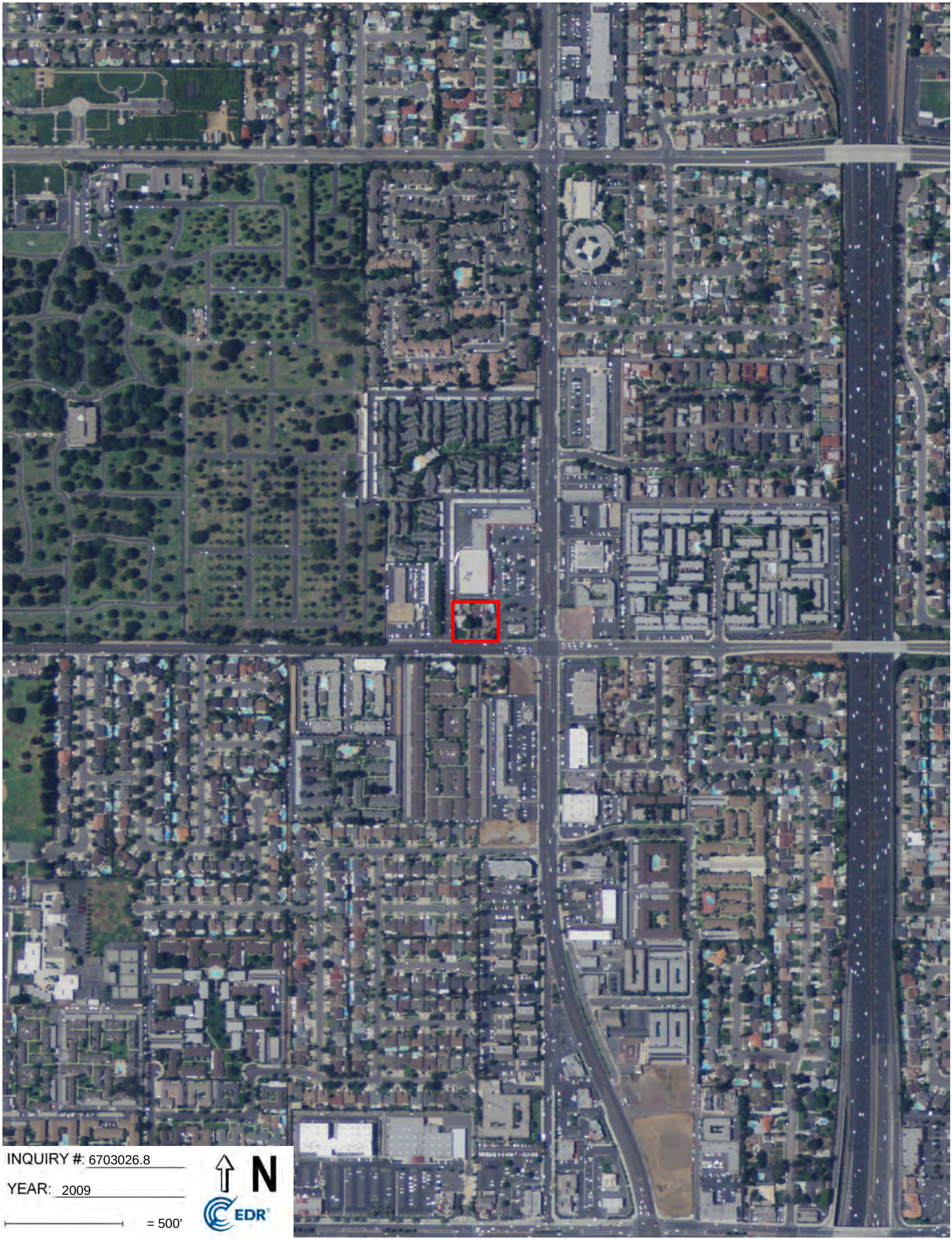
EDR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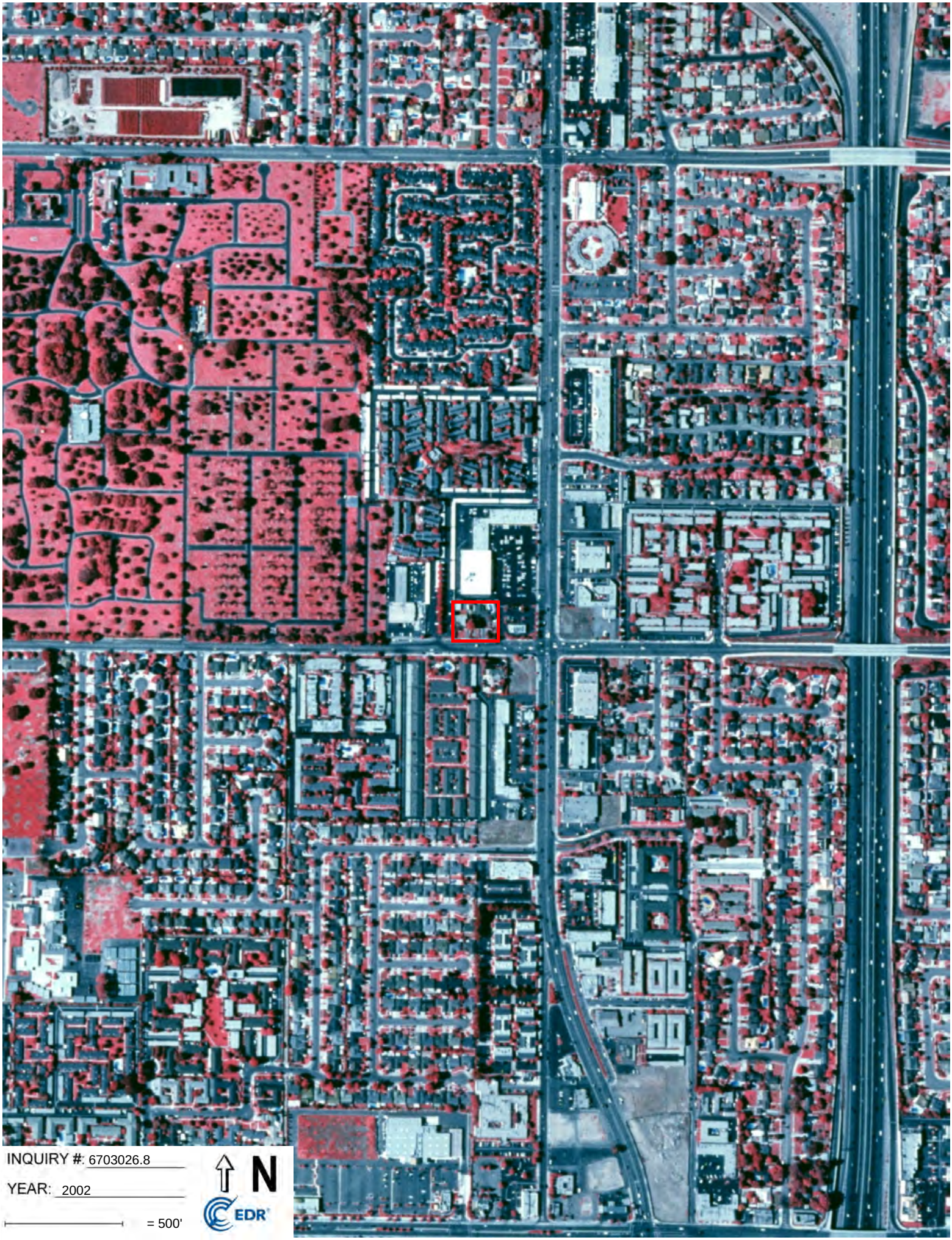
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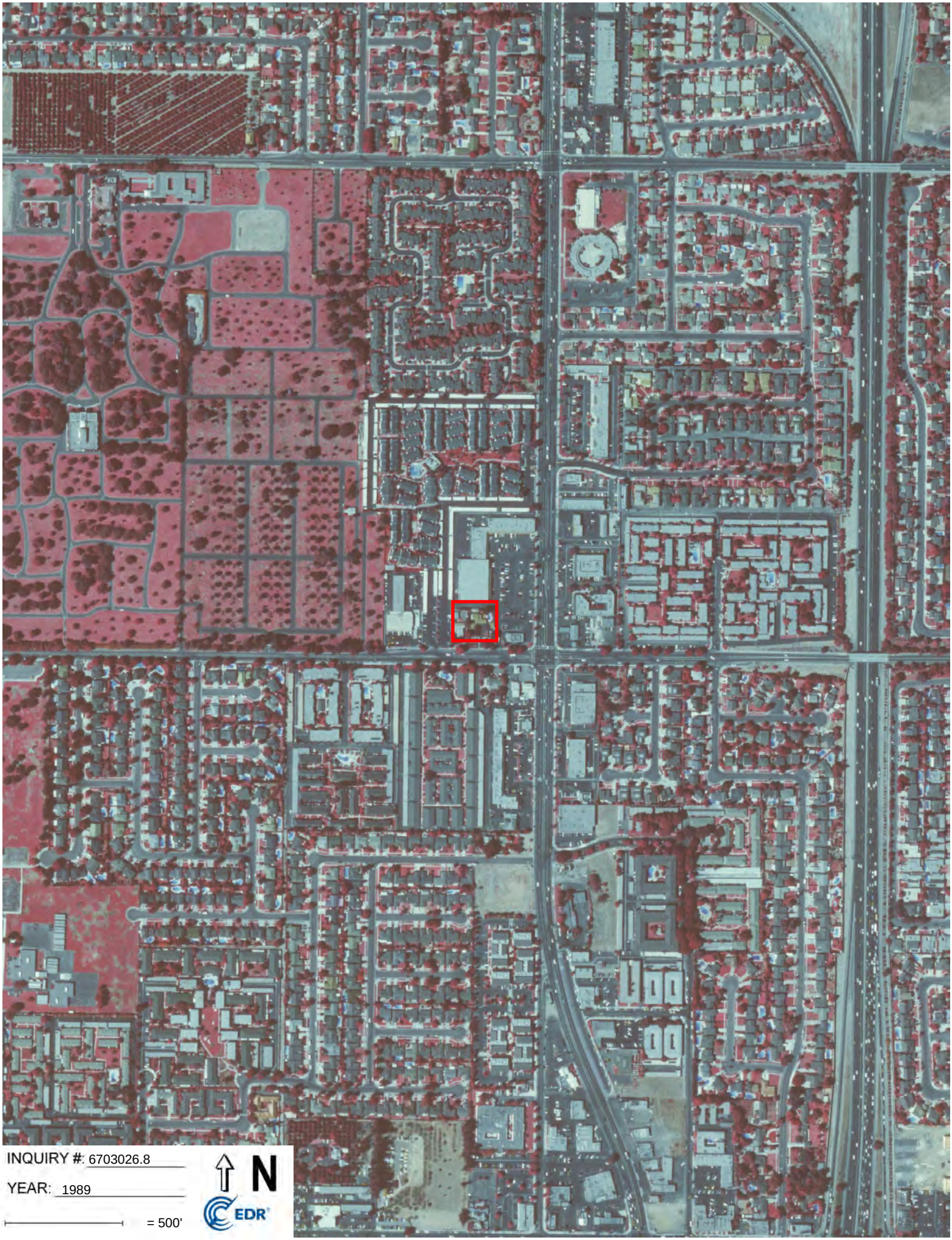
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YEAR: 1989
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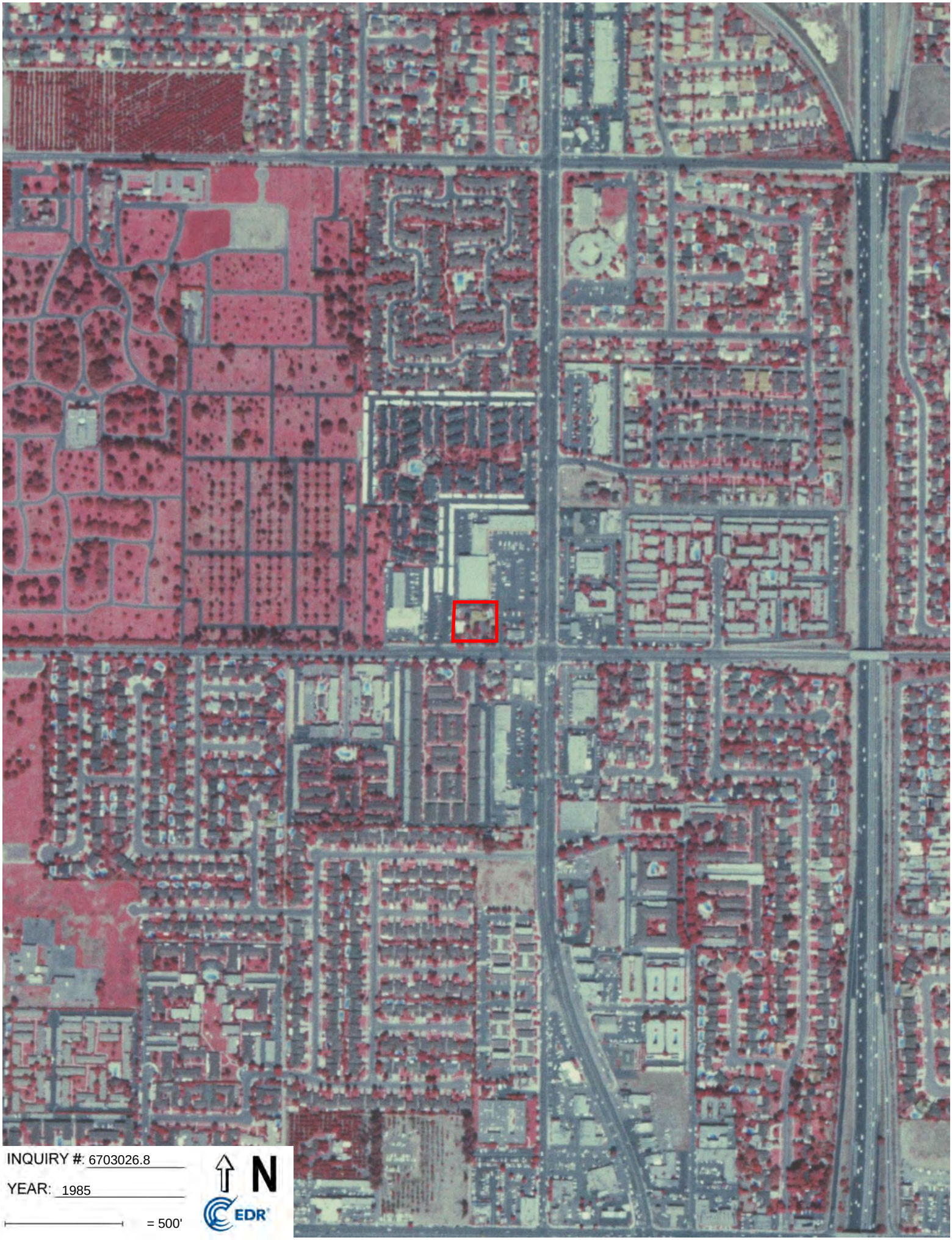
EDR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EDR

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YEAR: 1977
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EDR

INQUIRY #: 6703026.8
YEAR: 1972
= 500'
N
EDR

INQUIRY #: 6703026.8
YEAR: 1966
= 500'
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EDR

INQUIRY #: 6703026.8
YEAR: 1963
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EDR

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YEAR: 1952
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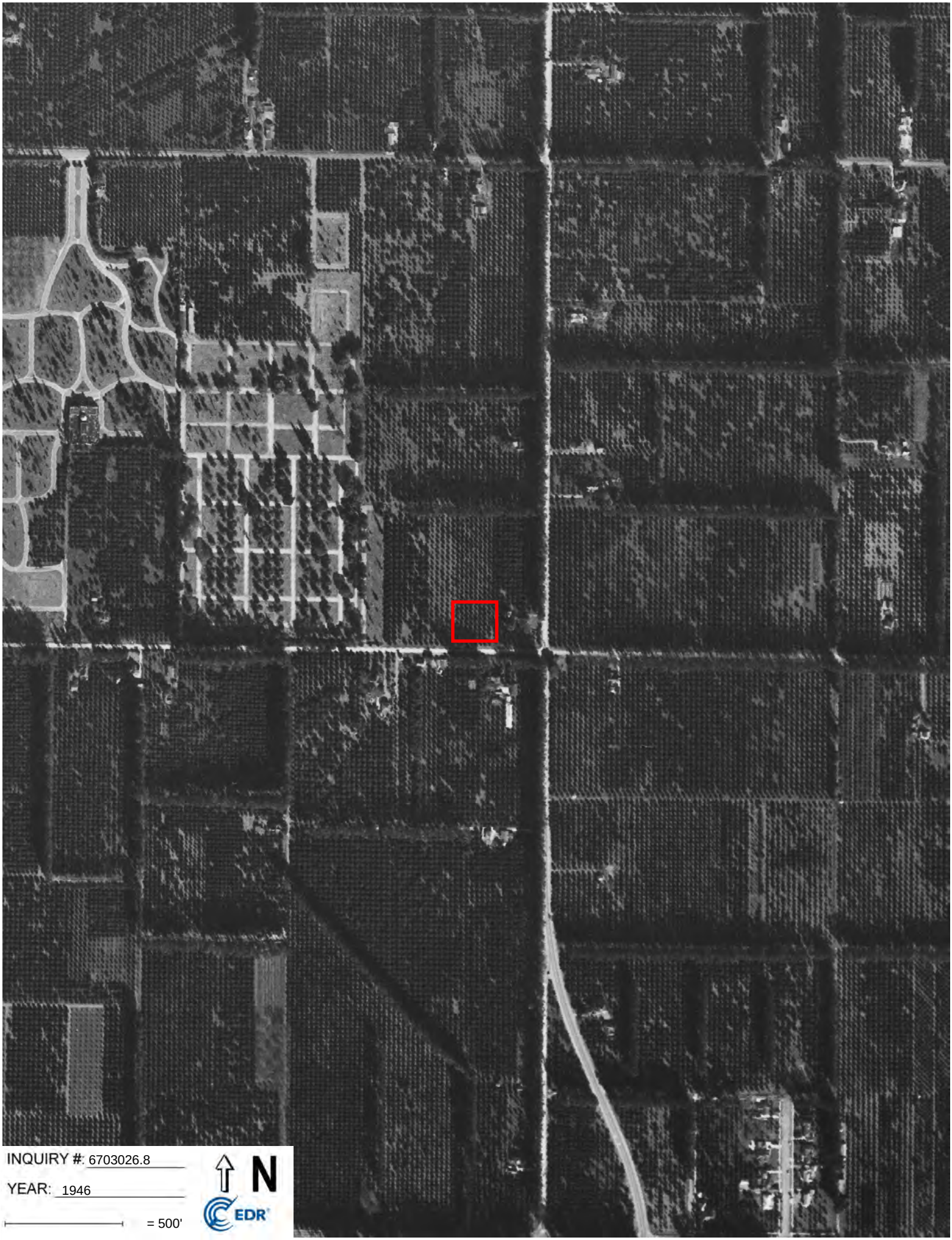
EDR


INQUIRY #: 6703026.8
YEAR: 1946
= 500'
N
EDR

INQUIRY #: 6703026.8
YEAR: 1938
= 500'
N
EDR

# APPENDIX G

# ASBESTOS SURVEY REPORT

September 25, 2023

Mr. Nick Kreuter
Stream Realty Partners
3161 Michelson Drive, Suite 100
Irvine, California 92612

**ASBESTOS SURVEY REPORT**
**2101 AND 2109 EAST SANTA CLARA AVENUE**
**SANTA ANA, CALIFORNIA 92705**

Dear Mr. Kreuter,

This report presents the results of an asbestos survey (AS) conducted at the address referenced above in the City of Santa Ana, California (Site). The AS was conducted at the Site on August 29th, 2023. It is our understanding your intentions call for the complete demolition of the structures at the Site in preparation for the development of a fast food establishment.

The AS was conducted by Mr. Troy Taylor, Certified Building Inspector (CBI) for HMC, while under the direct oversight of Mr. John V. Payne, Certified Asbestos Consultant (CAC# 93-1112; expiration July 16, 2024), from Crescent Bay Environmental (CBE), an affiliate of Hazard Management Consulting Inc. (HMC) for the purposes of training to become a CSST, see Appendix C for CBI and CAC information. The purpose of the AS was to identify potential asbestos containing materials (ACMs) in preparation for the aforementioned demolition project.

## 1.0 DESCRIPTION OF THE SITE BUILDINGS

The AS areas include materials observed at the structures and properties located at:

- 2101 East Santa Clara Avenue (~0.29-acres): House and detached garage – ~2668.6 square feet ($ft^2$)
- 2109 East Santa Clara Avenue (~0.52-acres): House and detached garage – ~3,071.2 $ft^2$

Based on Site observations and scope, suspect materials sampled and conditions are summarized in Table 1 and Table 2. There was no obvious fire or structural damage to the building observed. The AS areas were observed for residential use however were vacant at the time of the survey. All areas of the structures and properties were accessible during the survey.

## 2.0 OBJECTIVE

The objective of the work summarized in this report was to assess the likelihood that asbestos is present in concentrations greater than one percent in accessible construction materials at the Site.

## 3.0 APPROACH AND SCOPE OF SERVICES

The approach used to meet the objective included visual observation of accessible construction materials, the collection and analysis of bulk samples of accessible construction materials that were judged to potentially contain asbestos, evaluation of the data obtained, and preparation of this report.

The scope of services used to meet the objective included:

- An inspection of the Site buildings for suspected asbestos containing materials (ACMs) by a CBI and/or CAC.
- An assessment of the condition of sampled materials and identification of potential health hazards.
- Collection of accessible construction materials that were judged to potentially contain asbestos.
- Laboratory analyses of bulk samples (plus individual layers) by a National Voluntary Laboratory Accreditation Program (NVLAP)-approved laboratory using polarized light microscopy (PLM) in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 600600/R-93/116 and EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples".
- Preparation of an asbestos summary table presenting the descriptions of materials sampled, sample collection locations, estimated area covered by ACMs, and laboratory analytical results.
- Data evaluation and preparation of this report summarizing the results of the survey.

## 4.0 GUIDELINES AND TERMINOLOGY FOR ASBESTOS CHARACTERIZATION

The following section provides information pertaining to regulatory agency definitions of terms used to describe the sampling strategy, laboratory analysis, and survey observations.

### 4.1 Asbestos Sampling Strategy

This asbestos survey was performed in general accordance with standard procedures recommended by the Environmental Protection Agency (EPA, 1985 and 1987) for the performance of asbestos surveys.

The sampling strategy used to collect the samples in this survey was based on the EPA's publication, "Guidance for Controlling Asbestos-Containing Materials in Buildings" (EPA, 1985) and was based on the 1987 AHERA guidelines set forth in Title 40 of the Code of Federal Regulations (CFR) Part 763 and applicable appendices. These documents call for the sampling of friable materials, which are defined by the EPA as those materials that can be crumbled, pulverized, or reduced to powder by hand pressure when dry (EPA, 1985).

Nonfriable asbestos-containing materials (ACMs) can become friable when disturbed through work practices and handling of the material (EPA, 1987). Such work practices can include grinding, sanding, and handling of the material in an attempt to remove it. The EPA specifies that ACMs that are classified as friable, or that may become friable, are to be removed prior to demolition activities (EPA, 1990). According to the EPA (1985), nonfriable ACMs represent a minimal hazard to the occupants of a building, as long as the material is in a generally undamaged condition and is used for its intended purpose.

The National Emissions Standards for Hazardous Air Pollutants (NESHAPS) (Title 40 CFR Section 61) defines nonfriable ACMs as nonfriable material containing more than 1 percent asbestos by area or by weight and that can potentially be broken, crumbled, pulverized, or reduced to powder in the course of demolition or renovation activities.

### 4.2 Laboratory Information

The bulk samples that were collected were transported to Envirocheck Laboratories with chain-of-custody records used to document their handling. Envirocheck Laboratories is a participant in the NVLAP of the U.S. Department of Commerce National Institute of Standards and Technology (NIST) for bulk asbestos analysis. The bulk samples collected were analyzed by the laboratory, using PLM, for the presence and quantification of asbestos, in general accordance with EPA Method No. 600/M4-82-020. A copy of the laboratory report and a copy of the chain-of-custody records for the samples collected and transferred to the laboratory are presented in Appendix B.

<u>Laboratory Contact/NVLAP Information:</u>
Laboratory Name: Envirocheck Laboratories
Laboratory Address: 2211 West Orangewood Avenue, Orange, CA 92868
Laboratory NVLAP Lab Code: 200548-0

Laboratory Phone Number: 714-937-0750 or 800-665-7586.

ACM vs. ACCM

When a material is found to contain asbestos in a concentration of greater than 1 percent, it is defined by the EPA as an ACM (EPA, 1987). Section 25919 of the California Health and Safety Code defines an asbestos containing construction material (ACCM) as one that contains greater than 0.1 percent asbestos (California Health and Safety Code). The California Occupational Safety and Health Administration (Cal-OSHA) requires that worker/employee notification and training be implemented when a material contains greater than 0.1 percent asbestos in an area where workers/employees perform work (Cal-OSHA, 1989).

## 5.0 ASBESTOS SURVEY

The AS was conducted at the Site on August 29th, 2023 by Mr. Troy Taylor, Certified Building Inspector (CBI) for HMC, under the direct supervision of John V. Payne, Certified Asbestos Consultant (CAC# 93-1112; expiration July 16, 2023), from Crescent Bay Environmental (CBE), an affiliate of Hazard Management Consulting Inc. (HMC) for the purposes of training to become a CSST. (See Appendix C for CBI and CAC information). Bulk samples of accessible construction materials judged by certified personnel to potentially contain asbestos were collected from the Site.

Bulk samples (plus additional layers) of accessible construction materials were collected from the noted materials at the Site. Descriptions of all sampled materials and materials assumed to contain asbestos are summarized in Table 1 and Table 2.

### 5.1 ASBESTOS CONTAINING MATERIALS (ACMs/ACCMs)

The following summary table lists samples of materials that were reported by the laboratory to contain asbestos. The listed samples are grouped by material type. The “locations of material” column refers to materials throughout the buildings and elsewhere that were observed to be homogeneous with samples of materials reported to contain asbestos. Square footage estimates of asbestos containing materials are also presented.

| 2101 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HMC Sample ID** | **Lab Sample ID** | **Date Sampled** | **Sample Location** | **Sample Description** | **Approx. $Ft^2$** | **ACM %** | **1,000 Point Count %** |
| A1-A5 | 1-30 | 8/29/23 | House & Garage - Roof | White/black rolled roofing material, silver reflective roof coating, black hot mop, black roofing felt - Intact | 2,200 | Rolled Roofing Material 3%/ Reflective Roof Coating 3%/ Hot Mop ND/ Black Roofing Felt ND | * |
| A28-A32 | 53-57.2 | 8/29/23 | Garage - Interior/Exterior Walls | Pink stucco, gray stucco, white stucco, black/brown moisture paper - Intact | 1,200 | Pink Stucco <1%/Gray Stucco <1%/White Stucco ND/Moisture Paper ND | Pink Stucco 0.2-0.6%/Gray Stucco 0.2-0.4%/White Stucco ND/Moisture Paper ND |

Table Notes:

Chrysotile = Chrysotile asbestos. ND= non-detect for asbestos.

All other samples were reported to be non-detect for asbestos.

Table 1 and Figure 2 present descriptions of the materials sampled, ACM locations, and a summary of laboratory analytical results. Laboratory reports and chain-of-custody documents are presented in Appendix A.

* = Not Analyzed

| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
|---|---|---|---|---|---|---|---|
| **HMC Sample ID** | **Lab Sample ID** | **Date Sampled** | **Sample Location** | **Sample Description** | **Approx. $Ft^2$** | **ACM %** | **1,000 Point Count %** |
| AA9-AA13 | 9-13.2 | 8/29/23 | House & Garage - Exterior Walls | Pink stucco/ grey concrete - Intact | 2,000 | Stucco <1%/ Concrete ND | Stucco <1%/ Concrete ND |
| AA17-AA21 | 20-24.2 | 8/29/23 | House - Interior Walls | Pink plaster/light-grey plaster/white plaster/white drywall - Intact | 2,500 | Pink plaster <1%/ light grey plaster ND/white plaster <1%/drywall ND | Pink plaster <.01-0.5%/ light grey plaster ND/white plaster 0.1-0.2%/drywall ND |
| AA31-AA33 | 34-36.3 | 8/29/23 | Kitchen Walls | Off-white wallpaper/white plaster/light-gray plaster/yellow adhesive - Intact | 550 | Wallpaper ND/white plaster <1%/light-gray plaster ND/adhesive ND | Wallpaper ND/white plaster 0.2-0.4%/light-gray plaster ND/adhesive ND |
| AA37-AA39 | 40-42.2 | 8/29/23 | Kitchen Floor | Light-gray, tan sheet flooring/orange, off-white sheet flooring/ yellow adhesive - Intact | 300 | Light-gray, tan sheet flooring 14%/orange, off-white sheet flooring ND/ yellow adhesive ND | * |
| AA46-AA48 | 55-60.5 | 8/29/23 | Bathroom - Main Hall | White sheet flooring/ yellow sheet flooring adhesive/off-white vinyl sheet flooring/grey leveling compound/ yellow vinyl sheet adhesive/black, green vinyl sheet flooring/brown vinyl sheet adhesive - Intact | 100 | White sheet flooring ND/ yellow sheet flooring adhesive ND/off-white vinyl sheet flooring 15%/grey leveling compound ND/ yellow vinyl sheet adhesive ND/black, green vinyl sheet flooring ND/brown vinyl sheet adhesive ND | * |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AA58-AA60 | 73-75 | 8/29/23 | Laundry Room Closet | Beige, red sheet flooring - Intact | 20 | Sheet flooring 15% | * |
| AA61-AA63 | 76-78 | 8/29/23 | Laundry Room Water Heater | Beige, brown sheet flooring - Intact | 20 | Sheet flooring 10% | * |
| AA64-AA66 | 79-81.1 | 8/29/23 | Pool | Grey concrete/ white stucco - Intact | 600 | Concrete <1%/ Stucco ND | Concrete <0.1%/ Stucco ND |
| AA70 | 85-87 | 8/29/23 | Exposed Pipe - Front Yard | Gray cementitious pipe - Damaged | 30 (exposed) | Pipe 34-36% | * |

Table Notes:
ND= non-detect for asbestos.
All other samples were reported to be non-detect for asbestos.
Table 1 and Table 2 present descriptions of the materials sampled, ACM locations, and a summary of laboratory analytical results. Laboratory reports and chain-of-custody documents are presented in Appendix A.
* = Not Analyzed

## 6.0 CONCLUSIONS

Based on the information obtained during this survey, laboratory analytical results, current regulatory guidelines and law, state-of-the-industry practices, and our professional judgment, the following conclusions have been drawn:

- Positive ACMs and ACCMs have been identified and the Site.

## 7.0 RECOMMENDATIONS

Based on the information obtained during this survey, current regulatory guidelines, state-of-the-industry practices, and our professional judgment, the following recommendations are presented for your consideration:

- Prior to renovation or demolition of the identified asbestos containing flooring materials at the Site, NESHAPS, Title 40 Code of Federal Regulations Part 61 and other regulations including Rule 1403 promulgated by the South Coast Air Quality Management District require that both friable and various nonfriable ACMs and ACCMs be removed from the structures at the Site by a licensed abatement contractor registered in the State of California and certified to perform asbestos-related activities.

- ACMs and ACCMs should be removed by a qualified asbestos abatement contractor prior to

conducting any work that may disturb this material including maintenance activities, building renovation, or demolition.

- Given the intact, non-friable conditions of positively identified ACM (Section 5.1), an asbestos abatement project would be required to be conducted under a South Coast Air Quality Management District Procedure 3 notice with the exception of the damage pipe located at the 2109 East Santa Clara Avenue address. Due to its classification as a subterranean pipe, as well as damaged condition, this material will need to be abated under a Procedure 5 notice. It should be noted that this pipe is believed to be located within in an easement that travels approximately 182 feet from at least the northern property line to the southern property line, depicted in Figure 2.

- If additional materials are discovered during remodeling or demolition of the building(s) and laboratory analysis of samples of those materials was not performed, samples should be collected and analyzed prior to removal or disturbance of the materials.

- Applicable laws and regulations should be followed, including those provisions requiring notification of tenants, employees, maintenance and custodial personnel, and outside contractors who may contact the asbestos-containing materials, of the location of these materials.

The above recommendations are intended to provide guidance in implementing procedures which, in our experience, are appropriate within the regulatory environment in California. These recommendations are not intended to constitute legal advice; it is possible that legal counsel familiar with asbestos law would provide recommendations that would differ from those cited above and/or would advise compliance with regulations, guidelines, and laws not cited herein.

## 8.0 LIMITATIONS

Estimates of the quantities of construction materials present at the Site are provided for discussion purposes only. No warranty as to the accuracy of the estimates of materials provided is expressed or implied. The estimates provided in this report should not be relied upon or used in the preparation of asbestos abatement specifications.

The judgments, conclusions, and recommendations described in this report pertain to the conditions judged to be present or applicable at the time the work was performed. Future conditions may differ from those described herein. Use of this report is provided to our client solely for their exclusive use and the use and shall be subject to the terms and conditions in the applicable contract between our company and the client. Any third-party use shall also be subject to the terms and conditions governing the work in the

contract between our and the client. Any unauthorized release or misuse of this report shall be without risk or liability to our company.

Certain information contained in this report may have been rightfully provided to our company by third parties or other outside sources. We do not make any warranties or representations, whether expressed or implied, regarding the accuracy of such information, and shall not be held accountable or responsible if any such inaccuracies are present.

**Although the asbestos survey was conducted by a Certified Building Inspector, Certified Asbestos Consultant, and an accredited laboratory performed the analyses, the asbestos survey described here may not identify all ACMs at the Site.** Possible reasons for this include inaccessible building features or areas, non-performance of destructive sampling, unavailability of as-built drawings (specifying all building materials used in the structure), practical limitation to the number of samples that can be collected, presence of multiple layers of materials, and the analytical method used (Polarized Light Microscopy). Further, although a sample will be collected from each material which appears to be different (based on texture and color); homogeneity of content of similar materials cannot be guaranteed since similarities in color and texture do not assure that the same ingredients were used in their manufacture. It is possible that of two apparently similar materials, one may contain asbestos, and one may not. Therefore, additional sampling and testing may be necessary to provide a higher confidence level regarding the presence of ACMs.

Sincerely,

John V. Payne
Certified Asbestos Consultant
Certification Number: 93-1112

Mark Cousineau
Principal

Troy Taylor
Certified Building Inspector
Certificate No. ABII0221220005N30743

**Attachments**

Table 1 – Asbestos Survey Results Summary
Figure 1 – Site Location Map

Figure 2 – Site Map
Appendix A – Laboratory Analytical Reports and Chain of Custody Records
Appendix B – CBI/CAC Information

## REFERENCES

California Health and Safety Code, Division 20, Chapter 10.4, Section 25919.

Cal-OSHA (California Occupational Safety and Health Administration), 1989, General Industry Safety Orders: Title 8, Section 5208.

EPA (Environmental Protection Agency), 1990, Federal Register, National Emission Standards for Hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule: EPA, Title 40, Code of Federal Regulations Part 61, 20 November 1990, pp. 48406 to 48433.

_____, 1987, Federal Register, Asbestos Hazard Emergency Response Act, Asbestos-containing materials in schools, final rule (AHERA) and notice: Environmental Protection Agency, Title 40, Code of Federal Regulations Part 763, 30 October 1987, pp 41826 to 41905.

_____, 1985, Guidance for controlling asbestos-containing materials in buildings: Office of Pesticides and toxic Substances, Environmental Protection Agency, Publication Number 560/5/85-024, May 1985.

# TABLES

| TABLE 1 - LABORATORY RESULTS OF ASBESTOS BULK SAMPLING | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| **HMC Sample ID** | **Lab Sample ID** | **Date Sampled** | **Sample Location** | **Sample Description** | **Approximate Square Footage** | **ACM % (PLM)** | **1,000 Point Count** |
| AA1 | 1-5.2 | 8/29/23 | House & Garage - Roof | Black, red rolled roofing material/ black hot map tar/ black roofing felt - Intact | 2,500 | ND | * |
| AA2 | | 8/29/23 | | | | | |
| AA3 | | 8/29/23 | | | | | |
| AA4 | | 8/29/23 | | | | | |
| AA5 | | 8/29/23 | | | | | |
| AA6 | 6-8.1 | 8/29/23 | East Awning | Black & white rolled roofing material/ black roofing felt - Intact | 250 | ND | * |
| AA7 | | 8/29/23 | | | | | |
| AA8 | | 8/29/23 | | | | | |
| AA9 | 9-13.2 | 8/29/23 | House & Garage - Exterior Walls | Pink stucco/ grey concrete - Intact | 2,000 | Stucco <1%/ Concrete ND | Stucco <1%/ Concrete ND |
| AA10 | | 8/29/23 | | | | | |
| AA11 | | 8/29/23 | | | | | |
| AA12 | | 8/29/23 | | | | | |
| AA13 | | 8/29/23 | | | | | |
| **ACM Definitions** | | | | | | | |
| **ACM** | | | | | | **≥1%** | **≥1%** |
| **ACCM** | | | | | | NA | **0.1%-0.9%** |

## Notes:

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

1,000 Point Count - Bulk sample analysis for asbestos concentration by EPA 600/R-93/116

% - Percent of asbestos containing material detected

ND - no detectable concentrations above the laboratory reporting limit

NA - Not Applicable

* - Not Analyzed

Yellow highlight indicates positive detection of ACM and/or ACCM

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|---|---|---|---|---|---|---|---|
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| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % (PLM) | 1,000 Point Count |
| AA14 | 14-19 | 8/29/23 | House - Exterior/Interior | Red brick/grey mortar - Intact | 750 | ND | * |
| AA15 | | 8/29/23 | | | | | |
| AA16 | | 8/29/23 | | | | | |
| AA17 | 20-24.2 | 8/29/23 | House - Interior Walls | Pink plaster/light-grey plaster/white plaster/white drywall - Intact | 2,500 | Pink plaster <1%/ light grey plaster ND/white plaster <1%/drywall ND | Pink plaster <.01-0.5%/ light grey plaster ND/white plaster 0.1-0.2%/drywall ND |
| AA18 | | 8/29/23 | | | | | |
| AA19 | | 8/29/23 | | | | | |
| AA20 | | 8/29/23 | | | | | |
| AA21 | | 8/29/23 | | | | | |
| AA22 | 25-27 | 8/29/23 | Master Bathroom | Cream Wallpaper - Floral - Intact | 300 | ND | * |
| AA23 | | 8/29/23 | | | | | |
| AA24 | | 8/29/23 | | | | | |
| AA25 | 28-30 | 8/29/23 | Family Room | Cream Wallpaper - Bamboo - Intact | 400 | ND | * |
| AA26 | | 8/29/23 | | | | | |
| AA27 | | 8/29/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

**Notes:**

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

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|---|---|---|---|---|---|---|---|
| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % (PLM) | 1,000 Point Count |
| AA28 | 31-33 | 8/29/23 | Main Hallway Walls | Cream, white wallpaper - Blue Diamond Pattern - Intact | 700 | ND | * |
| AA29 | | 8/29/23 | | | | | |
| AA30 | | 8/29/23 | | | | | |
| AA31 | 34-36.3 | 8/29/23 | Kitchen Walls | Off-white wallpaper/white plaster/light-gray plaster/yellow adhesive - Intact | 550 | Wallpaper ND/white plaster <1%/light-gray plaster ND/adhesive ND | Wallpaper ND/white plaster 0.2-0.4%/light-gray plaster ND/adhesive ND |
| AA32 | | 8/29/23 | | | | | |
| AA33 | | 8/29/23 | | | | | |
| AA34 | 37-39 | 8/29/23 | Laundry Room & Attached Bathroom | Off-white wallpaper Intact | 250 | ND | * |
| AA35 | | 8/29/23 | | | | | |
| AA36 | | 8/29/23 | | | | | |
| AA37 | 40-42.2 | 8/29/23 | Kitchen Floor | Light-gray, tan sheet flooring/orange, off-white sheet flooring/ yellow adhesive - Intact | 300 | Light-gray, tan sheet flooring 14%/orange, off-white sheet flooring ND/ yellow adhesive ND | * |
| AA38 | | 8/29/23 | | | | | |
| AA39 | | 8/29/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

**Notes:**

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

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|---|---|---|---|---|---|---|---|
| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % (PLM) | 1,000 Point Count |
| AA40 | 43-48 | 8/29/23 | Bathroom - Laundry Room | Off-white sheet flooring/yellow adhesive - Intact | 150 | ND | * |
| AA41 | | 8/29/23 | | | | | |
| AA42 | | 8/29/23 | | | | | |
| AA43 | 49-54 | 8/29/23 | Foyer Closets & Hallway Water Heater | Brown, beige sheet flooring/brown adhesive - Damaged | 200 | ND | * |
| AA44 | | 8/29/23 | | | | | |
| AA45 | | 8/29/23 | | | | | |
| AA46 | 55-60.5 | 8/29/23 | Bathroom - Main Hall | White sheet flooring/ yellow sheet flooring adhesive/off-white vinyl sheet flooring/grey leveling compound/ yellow vinyl sheet adhesive/black, green vinyl sheet flooring/brown vinyl sheet adhesive - Intact | 100 | White sheet flooring ND/ yellow sheet flooring adhesive ND/off-white vinyl sheet flooring 15%/grey leveling compound ND/ yellow vinyl sheet adhesive ND/black, green vinyl sheet flooring ND/brown vinyl sheet adhesive ND | * |
| AA47 | | 8/29/23 | | | | | |
| AA48 | | 8/29/23 | | | | | |
| AA49 | 61-66 | 8/29/23 | Foyer Floor | Red clay tile/gray mortar - Intact | 120 | ND | * |
| AA50 | | 8/29/23 | | | | | |
| AA51 | | 8/29/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

## Notes:

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

1,000 Point Count - Bulk sample analysis for asbestos concentration by EPA 600/R-93/116

% - Percent of asbestos containing material detected

ND - no detectable concentrations above the laboratory reporting limit

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* - Not Analyzed

Yellow highlight indicates positive detection of ACM and/or ACCM

| TABLE 1 - LABORATORY RESULTS OF ASBESTOS BULK SAMPLING | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % (PLM) | 1,000 Point Count |
| AA52 | 67-69.2 | 8/29/23 | Living Room & Hallway | Loose thread light-grey carpet/black, green, red, yellow foam/off-white adhesive - Intact | 400 | ND | * |
| AA53 | | 8/29/23 | | | | | |
| AA54 | | 8/29/23 | | | | | |
| AA55 | 70-72.2 | 8/29/23 | Family Room | Tight thread light-grey carpet/black, green, red, yellow foam/off-white adhesive - Intact | 300 | ND | * |
| AA56 | | 8/29/23 | | | | | |
| AA57 | | 8/29/23 | | | | | |
| AA58 | 73-75 | 8/29/23 | Laundry Room Closet | Beige, red sheet flooring - Intact | 20 | Sheet flooring 15% | * |
| AA59 | | 8/29/23 | | | | | |
| AA60 | | 8/29/23 | | | | | |
| AA61 | 76-78 | 8/29/23 | Laundry Room Water Heater | Beige, brown sheet flooring - Intact | 20 | Sheet flooring 10% | * |
| AA62 | | 8/29/23 | | | | | |
| AA63 | | 8/29/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

**Notes:**

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

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| TABLE 1 - LABORATORY RESULTS OF ASBESTOS BULK SAMPLING | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2109 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| **HMC Sample ID** | **Lab Sample ID** | **Date Sampled** | **Sample Location** | **Sample Description** | **Approximate Square Footage** | **ACM % (PLM)** | **1,000 Point Count** |
| AA64 | 79-81.1 | 8/29/23 | Pool | Grey concrete/ white stucco - Intact | 600 | Concrete <1%/ Stucco ND | Concrete <0.1%/ Stucco ND |
| AA65 | | 8/29/23 | | | | | |
| AA66 | | 8/29/23 | | | | | |
| AA67 | 82-84 | 8/29/23 | AC Duct Insulation - Foyer closet/ Inside walls | Yellow insulation - Intact | 300 | ND | * |
| AA68 | | 8/29/23 | | | | | |
| AA69 | | 8/29/23 | | | | | |
| AA70 | 85-87 | 8/29/23 | Exposed Pipe - Front Yard | Gray cementitious pipe - Damaged | 30 (exposed) | Pipe 34-36% | * |
| AA71 | | 8/29/23 | | | | | |
| AA72 | | 8/29/23 | | | | | |
| **ACM Definitions** | | | | | | | |
| **ACM** | | | | | | **≥1%** | **≥1%** |
| **ACCM** | | | | | | NA | **0.1%-0.9%** |

## Notes:

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

1,000 Point Count - Bulk sample analysis for asbestos concentration by EPA 600/R-93/116

% - Percent of asbestos containing material detected

ND - no detectable concentrations above the laboratory reporting limit

NA - Not Applicable

* - Not Analyzed

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| TABLE 2 - LABORATORY RESULTS OF ASBESTOS BULK SAMPLING | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2101 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % | 1,000 Point Count |
| A1 | 1-30 | 8/29/23 | House & Garage - Roof | White/black rolled roofing material, silver reflective roof coating, black hot mop, black roofing felt - Intact | 2,200 | Rolled Roofing Material 3%/ Reflective Roof Coating 3%/ Hot Mop ND/ Black Roofing Felt ND | * |
| A2 | | 8/29/23 | | | | | |
| A3 | | 8/29/23 | | | | | |
| A4 | | 8/29/23 | | | | | |
| A5 | | 8/29/23 | | | | | |
| A6 | 31-33 | 8/29/23 | House - Awnings | Red clay shingle - Intact | 544 | ND | * |
| A7 | | 8/29/23 | | | | | |
| A8 | | 8/29/23 | | | | | |
| A9 | 34-36 | 8/29/23 | Chimney | Beige/Tan Brick - Intact | 150 | ND | * |
| A10 | | 8/29/23 | | | | | |
| A11 | | 8/29/23 | | | | | |
| A12 | 37-39.3 | 8/29/23 | West Room | Tan texture, off-shite plaster, light gray plaster, red plaster - Intact | 500 | ND | * |
| A13 | | 8/29/23 | | | | | |
| A14 | | 8/30/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

**Notes:**

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

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|---|---|---|---|---|---|---|---|
| 2101 East Santa Clara Avenue Santa Ana, California 92705 | | | | | | | |
| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % | 1,000 Point Count |
| A15 | 40-46.2 | 8/29/23 | House - Interior/Exterior Walls | White stucco, gray stucco, white plaster, light gray , plaster, white texture, tan stucco , off-white stucco, beige adhesive - Intact | 4,000 | ND | * |
| A16 | | 8/29/23 | | | | | |
| A17 | | 8/29/23 | | | | | |
| A18 | | 8/29/23 | | | | | |
| A19 | | 8/29/23 | | | | | |
| A20 | | 8/29/23 | | | | | |
| A21 | | 8/29/23 | | | | | |
| A22 | 47-49 | 8/29/23 | Basement - AC Unit | Yellow Insulation - Intact | 200 | ND | * |
| A23 | | 8/29/23 | | | | | |
| A24 | | 8/29/23 | | | | | |
| A25 | 50-52 | 8/29/23 | Basment & Crawlspace - AC Ducting | Pink Insultation - Intact | 600 | ND | * |
| A26 | | 8/29/23 | | | | | |
| A27 | | 8/29/23 | | | | | |
| ACM Definitions | | | | | | | |
| ACM | | | | | | ≥1% | ≥1% |
| ACCM | | | | | | NA | 0.1%-0.9% |

## Notes:

Sample Description - Description of materials and layers

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## TABLE 2 - LABORATORY RESULTS OF ASBESTOS BULK SAMPLING

### 2101 East Santa Clara Avenue Santa Ana, California 92705

| HMC Sample ID | Lab Sample ID | Date Sampled | Sample Location | Sample Description | Approximate Square Footage | ACM % (PLM) | 1,000 Point Count |
|---|---|---|---|---|---|---|---|
| A28 | 53-57.2 | 8/29/23 | Garage - Interior/Exterior Walls | Pink stucco, gray stucco, white stucco, black/brown moisture paper - Intact | 1,200 | Pink Stucco <1%/Gray Stucco <1%/White Stucco ND/Moisture Paper ND | Pink Stucco 0.2-0.6%/Gray Stucco 0.2-0.4%/White Stucco ND/Moisture Paper ND |
| A29 | | 8/29/23 | | | | | |
| A30 | | 8/29/23 | | | | | |
| A31 | | 8/29/23 | | | | | |
| A32 | | 8/29/23 | | | | | |
| A33 | 58-60 | 8/29/23 | Garage - Interior Dividing Wall | White drywall - Intact | 100 | ND | * |
| A34 | | 8/29/23 | | | | | |
| A35 | | 8/29/23 | | | | | |

### ACM Definitions

| | | |
|---|---|---|
| **ACM** | **≥1%** | **≥1%** |
| **ACCM** | NA | **0.1%-0.9%** |

## Notes:

Sample Description - Description of materials and layers

Sample Location - Location of material(s) sampled

ACM - Asbestos containing material by EPA Method No. 600/M4-82-020

ACCM - Asbestos Containing Construction Material

1,000 Point Count - Bulk sample analysis for asbestos concentration by EPA 600/R-93/116

% - Percent of asbestos containing material detected

ND - no detectable concentrations above the laboratory reporting limit

NA - Not Applicable

* - Not Analyzed

Yellow highlight indicates positive detection of ACM and/or ACCM

# FIGURES

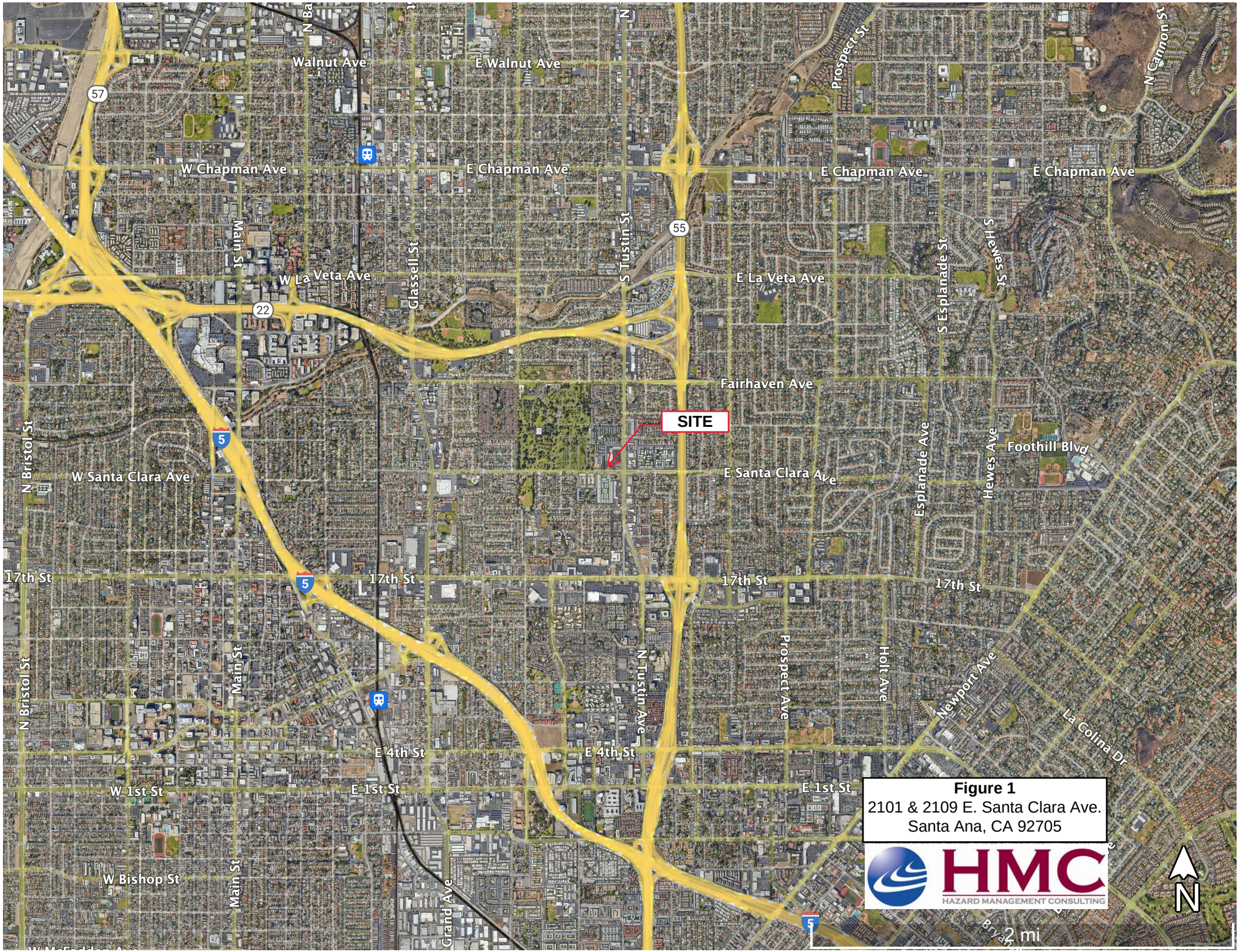


**Figure 1**
2101 & 2109 E. Santa Clara Ave.
Santa Ana, CA 92705

HMC
HAZARD MANAGEMENT CONSULTING

**Figure 2**
2101 & 2109 E. Santa Clara Ave.
Santa Ana, CA 92705

# APPENDIX A

# LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY RECORDS

ENVIRO CHECK
2211 West Orangewood Avenue
Orange, CA 92868
Tel: (714) 937-0750
Fax: (714) 937-0755
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(800) 665-7586

NVLAP TESTING ilac-MRA
NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083165 | 1123083166 | 1123083167 | 1123083168 | 1123083169 | 1123083170 | 1123083171 | 1123083172 | 1123083173 | 1123083174 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof |
| Material | Rolled Roofing Material | Reflective Roof Coating | Hot Mop Tar | Rolled Roofing Material | Hot Mop Tar | Rolled Roofing Material | Hot Mop Tar | Roofing Felt | Rolled Roofing Material | Reflective Roof Coating |
| Notes | A1 | A1 | A1 | A1 | A1 | A1 | A1 | A1 | A2 | A2 |
| Color | Black | Silver | Black | Black | Black | Black | Black | Black | Black | Silver |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | x | | x | x | x | x | x | x | x | |
| Cellulose | 2% | | <1% | 1% | | 1% | <1% | 60% | 1% | <1% |
| Fiberglass | 15% | | | 10% | | 10% | | | 15% | |
| Synthetic Fibers | | | | | | | | 5% | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Received: 8/30/2023 Analyzed: 8/31/2023 Report Date: 09/05/2023

Analysts: Erasmo Lopez Arturo Valdez Javier Osorio
Admin QC: MG
Lab QC: EE

Point Count: Erasmo Lopez
Point Count: 09/05/2023
Lab QC: EE

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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NVLAP TESTING ilac-MRA
NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083175 | 1123083176 | 1123083177 | 1123083178 | 1123083179 | 1123083180 | 1123083181 | 1123083182 | 1123083183 | 1123083184 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof |
| Material | Hot Mop Tar | Roofing Felt | Rolled Roofing Material | Reflective Roof Coating | Hot Mop Tar | Rolled Roofing Material | Hot Mop Tar | Rolled Roofing Material | Hot Mop Tar | Roofing Felt |
| Notes | A2 | A2 | A3 | A3 | A3 | A3 | A3 | A3 | A3 | A3 |
| Color | Black | Black | Black | Silver | Black | Black | Black | Black | Black | Black |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | x | x | x | | x | x | x | x | x | x |
| Cellulose | <1% | 60% | 1% | <1% | 1% | 1% | | 1% | <1% | 55% |
| Fiberglass | | | 15% | | | 10% | | 10% | | |
| Synthetic Fibers | | 5% | | | | | | | | 5% |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083185 | 1123083186 | 1123083187 | 1123083188 | 1123083189 | 1123083190 | 1123083191 | 1123083192 | 1123083193 | 1123083194 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | Yes | Yes | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **3%** | **3%** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | 3% Chrysotile | 3% Chrysotile | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof |
| Material | Rolled Roofing Material | Hot Mop Tar | Roofing Felt | Rolled Roofing Material | Hot Mop Tar | Roofing Felt | Reflective Roof Coating | Rolled Roofing Material | Hot Mop Tar | Roofing Felt |
| Notes | A4 | A4 | A4 | A4 | A4 | A4 | A5 | A5 | A5 | A5 |
| Color | White, Black | Black | Black | Beige, Black | Black | Black, Brown | Silver, Black | Beige, Black | Black | Black |
| Homogeneous | No | Yes | No | No | Yes | No | No | No | Yes | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | x | x | x | x | x | x | x | x | x | x |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.
**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083195 | 1123083196 | 1123083197 | 1123083198 | 1123083199 | 1123083200 | 1123083201 | 1123083201 Sub-sample | 1123083201 Sub-sample | 1123083201 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 37.1 | 37.2 | 37.3 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House - Awning | House - Awning | House - Awning | Chimney | Chimney | Chimney | West Room | West Room | West Room | West Room |
| Material | Clay Shingle | Clay Shingle | Clay Shingle | Brick | Brick | Brick | Texture | Plaster | Plaster | Plaster |
| Notes | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A12 | A12 | A12 |
| Color | Red | Red | Red | Beige, Tan | Beige, Tan | Beige, Tan | Tan | Off-White | Light-Gray | Red |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | x | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | | <1% | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083202 | 1123083202 Sub-sample | 1123083202 Sub-sample | 1123083202 Sub-sample | 1123083203 | 1123083203 Sub-sample | 1123083203 Sub-sample | 1123083203 Sub-sample | 1123083204 | 1123083205 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 38 | 38.1 | 38.2 | 38.3 | 39 | 39.1 | 39.2 | 39.3 | 40 | 40.1 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | West Room | West Room | West Room | West Room | West Room | West Room | West Room | West Room | Interior/Exterior Walls | Interior/Exterior Walls |
| Material | Texture | Plaster | Plaster | Plaster | Texture | Plaster | Plaster | Plaster | Stucco | Stucco |
| Notes | A13 | A13 | A13 | A13 | A14 | A14 | A14 | A14 | A15 | A15 |
| Color | Tan | Off-White | Light-Gray | Red | Tan | Off-White | Light-Gray | Red | White | Gray |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | | | x | | | | x | |
| Tar | | | | | | | | | | |
| Cellulose | | | <1% | | | | <1% | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083205 | 1123083205 Sub-sample | 1123083205 Sub-sample | 1123083206 | 1123083206 Sub-sample | 1123083206 Sub-sample | 1123083206 Sub-sample | 1123083207 | 1123083207 Sub-sample | 1123083207 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 41 | 41.1 | 41.2 | 42 | 42.1 | 42.2 | 42.3 | 43 | 43.1 | 43.2 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls |
| Material | Plaster | Plaster | Texture | Stucco | Stucco | Stucco | Stucco | Stucco | Stucco | Stucco |
| Notes | A16 | A16 | A16 | A17 | A17 | A17 | A17 | A18 | A18 | A18 |
| Color | White | Light Gray | White | White | Off-White | Tan | Light Gray | White | Tan | Light Gray |
| Homogeneous | No | No | No | No | No | No | No | No | No | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | x | x | x | x | | x | x | |
| Tar | | | | | | | | | | |
| Cellulose | 1% | 3% | 1% | 1% | <1% | 1% | 2% | 1% | <1% | 1% |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | Paper | Twine | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.
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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083208 | 1123083208 Sub-sample | 1123083208 Sub-sample | 1123083209 | 1123083210 | 1123083210 Sub-sample | 1123083210 Sub-sample | 1123083211 | 1123083212 | 1123083213 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 44 | 44.1 | 44.2 | 45 | 46 | 46.1 | 46.2 | 47 | 48 | 49 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Interior/Exterior Walls | Basement | Basement | Basement |
| Material | Plaster | Plaster | Adhesive | Plaster | Stucco | Stucco | Stucco | Insulation | Insulation | Insulation |
| Notes | A19 | A19 | A19 | A20 | A21 | A21 | A21 | A22 | A23 | A24 |
| Color | White | Light Gray | Beige | Light Gray | Beige | Tan | Light Gray | Yellow | Yellow | Yellow |
| Homogeneous | No | No | No | Yes | No | No | No | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | x | x | x | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | 1% | 1% | 2% | 2% | <1% | 1% | 1% | 2% | 1% | 1% |
| Fiberglass | | | | | | | | 95% | 99% | 99% |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | Twine | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.
**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason: 1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083214 | 1123083215 | 1123083216 | 1123083217 | 1123083217 Sub-sample | 1123083217 Sub-sample | 1123083218 | 1123083218 Sub-sample | 1123083218 Sub-sample | 1123083218 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 50 | 51 | 52 | 53 | 53.1 | 53.2 | 54 | 54.1 | 54.2 | 54.3 |
| **Point Count** | | | | **0.6%** | | | **0.3%** | **0.2%** | | |
| Asbestos | No | No | No | Yes | No | No | Yes | Yes | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **<1%** | **<1%** | **N.D.** | **N.D.** |
| 1° Type | | | | <1% Chrysotile | | | <1% Chrysotile | <1% Chrysotile | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Basement/Crawlspace | Basement/Crawl Space | Basement/Crawl Space | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall |
| Material | Insulation | Insulation | Insulation | Stucco | Stucco | Moisture Barrier Paper | Stucco | Stucco | Stucco | Moisture Barrier Paper |
| Notes | A25 | A26 | A27 | A28 | A28 | A28 | A29 | A29 | A29 | A29 |
| Color | Pink | Pink | Pink | Pink | Gray | Black | Pink | Gray | White | Black |
| Homogeneous | Yes | No | No | No | No | Yes | No | No | No | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | | | x | x | x | x | x | x | x |
| Paint | | | | x | | | x | | x | |
| Tar | | | | | | | | | | |
| Cellulose | 3% | | | | | | | | | |
| Fiberglass | 95% | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2101 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083219 | 1123083219 Sub-sample | 1123083220 | 1123083220 Sub-sample | 1123083221 | 1123083221 Sub-sample | 1123083221 Sub-sample | 1123083222 | 1123083223 | 1123083224 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 55 | 55.1 | 56 | 56.1 | 57 | 57.1 | 57.2 | 58 | 59 | 60 |
| **Point Count** | **0.3%** | **0.2%** | **0.2%** | **0.2%** | **0.5%** | **0.4%** | | | | |
| Asbestos | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | No |
| Total | **<1%** | **<1%** | **<1%** | **<1%** | **<1%** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | <1% Chrysotile | <1% Chrysotile | <1% Chrysotile | <1% Chrysotile | <1% Chrysotile | <1% Chrysotile | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage - Interior/Exterior Wall | Garage | Garage | Garage |
| Material | Stucco | Stucco | Stucco | Stucco | Stucco | Stucco | Moisture Barrier Paper | Drywall | Drywall | Drywall |
| Notes | A30 | A30 | A31 | A31 | A32 | A32 | A32 | A33 | A34 | A35 |
| Color | Pink | Gray | Pink | Gray | Pink | Gray | Brown | White | White | White |
| Homogeneous | No | No | No | No | No | No | Yes | No | No | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | x | | x | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | Paper | Paper | Paper |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the customer requests otherwise. This report shall not be reproduced except in full, without the written approval of the laboratory. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Test results apply to the sample as received. Asbestos percentage obtained through calibrated visual estimate. Components of inhomogeneous samples not analyzed separately unless listed as a sub-sample.

**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083078 | 1123083078 Sub-sample | 1123083078 Sub-sample | 1123083078 Sub-sample | 1123083079 | 1123083079 Sub-sample | 1123083079 Sub-sample | 1123083079 Sub-sample | 1123083080 | 1123083080 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 1 | 1.1 | 1.2 | 1.3 | 2 | 2.1 | 2.2 | 2.3 | 3 | 3.1 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof |
| Material | Rolled Roofing Material | Hot Mop Tar | Roofing Felt | Roofing Felt | Rolled Roofing Material | Hot Mop Tar | Roofing Felt | Roofing Felt | Rolled Roofing Material | Hot Mop Tar |
| Notes | AA1 | AA1 | AA1 | AA1 | AA2 | AA2 | AA2 | AA2 | AA3 | AA3 |
| Color | Black, Red | Black | Black | Black | Black, Red | Black | Black | Black | Black, Red | Black |
| Homogeneous | No | Yes | No | No | No | Yes | No | No | No | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | x | x | x | x | x | x | x | x | x | x |
| Cellulose | | | 10% | 10% | | | 12% | 10% | | |
| Fiberglass | | | 12% | | | | 12% | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Received: 8/30/2023 Analyzed: 8/30/2023 Report Date: 09/05/2023

Analysts: Arturo Valdez, Erasmo Lopez, Elaine Espique, Javier Osorio
Admin QC: MG
Lab QC: EE

Point Count: Javier Osorio, Elaine Espique
Point Count: 09/05/2023
Lab QC: RCC

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1123083080 Sub-sample | 1123083080 Sub-sample | 1123083081 | 1123083081 Sub-sample | 1123083081 Sub-sample | 1123083082 | 1123083082 Sub-sample | 1123083082 Sub-sample | 1123083083 | 1123083083 Sub-sample |
| Sample # | 3.2 | 3.3 | 4 | 4.1 | 4.2 | 5 | 5.1 | 5.2 | 6 | 6.1 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House & Garage - Roof | House - East Awning | House - East Awning |
| Material | Roofing Felt | Roofing Felt | Rolled Roofing Material | Roofing Felt | Roofing Felt | Rolled Roofing Material | Roofing Felt | Roofing Felt | Rolled Roofing Material | Roofing Felt |
| Notes | AA3 | AA3 | AA4 | AA4 | AA4 | AA5 | AA5 | AA5 | AA6 | AA6 |
| Color | Black | Black | Red, Black | Black | Black | Red, Black | Black | Black | Black, White | Black |
| Homogeneous | No | No | No | No | No | No | No | No | No | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | x | x | x | x | x | x | x | x | x | x |
| Cellulose | 11% | 10% | | 13% | 13% | | 10% | 10% | | |
| Fiberglass | 15% | | | 12% | | | 12% | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083084 | 1123083084 Sub-sample | 1123083085 | 1123083085 Sub-sample | 1123083086 | 1123083086 Sub-sample | 1123083087 | 1123083087 Sub-sample | 1123083088 | 1123083088 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 7 | 7.1 | 8 | 8.1 | 9 | 9.1 | 10 | 10.1 | 11 | 11.1 |
| **Point Count** | | | | | **<0.1%** | | **0.1%** | | **<0.1%** | |
| Asbestos | No | No | No | No | Yes | No | Yes | No | Yes | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **<1%** | **N.D.** | **<1%** | **N.D.** |
| 1° Type | | | | | <1% Chrysotile | | <1% Chrysotile | | <1% Chrysotile | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House - East Awning | House - East Awning | House - East Awning | House - East Awning | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior |
| Material | Rolled Roofing Material | Roofing Felt | Rolled Roofing Material | Roofing Felt | Stucco | Concrete | Stucco | Concrete | Stucco | Concrete |
| Notes | AA7 | AA7 | AA8 | AA8 | AA9 | AA9 | AA10 | AA10 | AA11 | AA11 |
| Color | Black, White | Black | Black, White | Black | Pink | Gray | Pink | Gray | Pink | Gray |
| Homogeneous | No | No | No | No | No | No | No | No | No | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | x | | x | | x | |
| Tar | x | x | x | x | | | | | | |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083089 | 1123083089 Sub-sample | 1123083090 | 1123083090 Sub-sample | 1123083090 Sub-sample | 1123083091 | 1123083092 | 1123083093 | 1123083094 | 1123083095 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 12 | 12.1 | 13 | 13.1 | 13.2 | 14 | 15 | 16 | 17 | 18 |
| **Point Count** | **<0.1%** | | **<0.1%** | | | | | | | |
| Asbestos | Yes | No | Yes | No | No | No | No | No | No | No |
| Total | **<1%** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | <1% Chrysotile | | <1% Chrysotile | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House & Garage - Exterior | House - Exterior | House - Exterior | House - Exterior | House - Exterior | House - Exterior |
| Material | Stucco | Concrete | Stucco | Stucco | Concrete | Brick | Mortar | Brick | Mortar | Brick |
| Notes | AA12 | AA12 | AA13 | AA13 | AA13 | AA14 | AA14 | AA15 | AA15 | AA16 |
| Color | Pink | Gray | Pink | White | Gray | Red | Gray | Red | Gray | Red |
| Homogeneous | No | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | x | x | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083096 | 1123083097 | 1123083097 Sub-sample | 1123083097 Sub-sample | 1123083098 | 1123083098 Sub-sample | 1123083098 Sub-sample | 1123083099 | 1123083099 Sub-sample | 1123083099 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 19 | 20 | 20.1 | 20.2 | 21 | 21.1 | 21.2 | 22 | 22.1 | 22.2 |
| **Point Count** | | **0.2%** | | | **<0.1%** | | | **0.2%** | | |
| Asbestos | No | Yes | No | No | Yes | No | No | Yes | No | No |
| Total | **N.D.** | **<1%** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** |
| 1° Type | | <1% Chrysotile | | | <1% Chrysotile | | | <1% Chrysotile | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House - Exterior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior |
| Material | Mortar | Plaster | Plaster | Drywall | Plaster | Plaster | Drywall | Plaster | Plaster | Drywall |
| Notes | AA16 | AA17 | AA17 | AA17 | AA18 | AA18 | AA18 | AA19 | AA19 | AA19 |
| Color | Gray | Pink | Light Gray | White | Pink | Light Gray | White | White | Pink | White |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | x | | | x | | | x | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | 10% | | | 10% | | | 10% |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083100 | 1123083100 Sub-sample | 1123083100 Sub-sample | 1123083101 | 1123083101 Sub-sample | 1123083101 Sub-sample | 1123083102 | 1123083103 | 1123083104 | 1123083105 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 23 | 23.1 | 23.2 | 24 | 24.1 | 24.2 | 25 | 26 | 27 | 28 |
| **Point Count** | **0.1%** | | | **0.5%** | | | | | | |
| Asbestos | Yes | No | No | Yes | No | No | No | No | No | No |
| Total | **<1%** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | <1% Chrysotile | | | <1% Chrysotile | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | House - Interior | Master Bathroom | Master Bathroom | Master Bathroom | Family Room |
| Material | Plaster | Plaster | Drywall | Plaster | Plaster | Drywall | Wallpaper | Wallpaper | Wallpaper | Wallpaper |
| Notes | AA20 | AA20 | AA20 | AA21 | AA21 | AA21 | AA22 | AA23 | AA24 | AA25 |
| Color | White | Pink | White | Pink | White | White | Cream | Cream | Cream | Cream |
| Homogeneous | No | Yes | Yes | No | No | No | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | | x | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | 10% | 1% | 1% | 2% | 99% | 99% | 99% | 99% |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | Paper | | | Twine | Twine |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083106 | 1123083107 | 1123083108 | 1123083109 | 1123083110 | 1123083111 | 1123083111 Sub-sample | 1123083111 Sub-sample | 1123083111 Sub-sample | 1123083112 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 29 | 30 | 31 | 32 | 33 | 34 | 34.1 | 34.2 | 34.3 | 35 |
| **Point Count** | | | | | | | **0.2%** | | | |
| Asbestos | No | No | No | No | No | No | Yes | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | <1% Chrysotile | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Family Room | Family Room | Hallway | Hallway | Hallway | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen |
| Material | Wallpaper | Wallpaper | Wallpaper | Wallpaper | Wallpaper | Wall Paper | Plaster | Plaster | Adhesive | Wall Paper |
| Notes | AA26 | AA27 | AA28 | AA29 | AA30 | AA31 | AA31 | AA31 | AA31 | AA32 |
| Color | Cream | Cream | Cream, White | Cream, White | Cream, White | Off-White | White | Light-Gray | Yellow | Off-White |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | x | x | | x | x |
| Tar | | | | | | | | | | |
| Cellulose | 99% | 99% | 99% | 99% | 99% | 75% | | | 2% | 75% |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | Twine | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

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**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1123083112 Sub-sample | 1123083112 Sub-sample | 1123083112 Sub-sample | 1123083113 | 1123083113 Sub-sample | 1123083113 Sub-sample | 1123083113 Sub-sample | 1123083114 | 1123083115 | 1123083116 |
| Sample # | 35.1 | 35.2 | 35.3 | 36 | 36.1 | 36.2 | 36.3 | 37 | 38 | 39 |
| **Point Count** | **0.4%** | | | | **0.2%** | | | | | |
| Asbestos | Yes | No | No | No | Yes | No | No | No | No | No |
| Total | **<1%** | **N.D.** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | <1% Chrysotile | | | | <1% Chrysotile | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Laundry Room / Bathroom | Laundry Room / Bathroom | Laundry Room / Bathroom |
| Material | Plaster | Plaster | Adhesive | Wall Paper | Plaster | Plaster | Adhesive | Wall Paper | Wall Paper | Wall Paper |
| Notes | AA32 | AA32 | AA32 | AA33 | AA33 | AA33 | AA33 | AA34 | AA35 | AA36 |
| Color | White | Light-Gray | Yellow | Off-White | White | Light-Gray | Yellow | Off-White | Off-White | Off-White |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | x | | x | x | x | | x | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | 2% | 75% | | | 2% | 75% | 75% | 75% |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083117 | 1123083117 Sub-sample | 1123083117 Sub-sample | 1123083118 | 1123083118 Sub-sample | 1123083118 Sub-sample | 1123083119 | 1123083119 Sub-sample | 1123083119 Sub-sample | 1123083120 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 40 | 40.1 | 40.2 | 41 | 41.1 | 41.2 | 42 | 42.1 | 42.2 | 43 |
| **Point Count** | | | | | | | | | | |
| Asbestos | Yes | No | No | Yes | No | No | Yes | No | No | No |
| Total | **14%** | **N.D.** | **N.D.** | **14%** | **N.D.** | **N.D.** | **14%** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | 14% Chrysotile | | | 14% Chrysotile | | | 14% Chrysotile | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Kitchen | Laundry Room / Bathroom |
| Material | Sheet Flooring | Sheet Flooring | Adhesive | Sheet Flooring | Sheet Flooring | Adhesive | Sheet Flooring | Sheet Flooring | Adhesive | Sheet Flooring |
| Notes | AA37 | AA37 | AA37 | AA38 | AA38 | AA38 | AA39 | AA39 | AA39 | AA40 |
| Color | Light-Gray, Tan | Orange, Off-White | Yellow | Light-Gray, Tan | Orange, Off-White | Yellow | Light-Gray, Tan | Orange, Off-White | Yellow | Light-Gray, Off-White |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | 6% | 4% | | 4% | 7% | | 4% | 7% | | 12% |
| Fiberglass | | 3% | | | 4% | | | 4% | | 3% |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083121 | 1123083122 | 1123083123 | 1123083124 | 1123083125 | 1123083126 | 1123083127 | 1123083128 | 1123083129 | 1123083130 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Laundry Room / Bathroom | Laundry Room / Bathroom | Laundry Room / Bathroom | Laundry Room / Bathroom | Laundry Room / Bathroom | Foyer Closets, Laundry Water Heater, Hallway Water Heater | Foyer Closets, Laundry Water Heater, Hallway Water Heater | Foyer Closets, Laundry Water Heater, Hallway Water Heater | Foyer Closets, Laundry Water Heater, Hallway Water Heater | Foyer Closets, Laundry Water Heater, Hallway Water Heater |
| Material | Adhesive | Sheet Flooring | Adhesive | Sheet Flooring | Adhesive | Sheet Flooring | Adhesive | Sheet Flooring | Adhesive | Sheet Flooring |
| Notes | AA40 | AA41 | AA41 | AA42 | AA42 | AA43 | AA43 | AA44 | AA44 | AA45 |
| Color | Yellow | Off-White | Yellow | Off-White | Yellow | Brown, Beige | Brown | Brown, Beige | Brown | Brown, Beige |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | 15% | 1% | 15% | 2% | 10% | 1% | 10% | 3% | 10% |
| Fiberglass | | 5% | | 5% | | | | | | |
| Synthetic Fibers | | | | | | 5% | | 5% | | 5% |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083131 | 1123083132 | 1123083133 | 1123083133 Sub-sample | 1123083133 Sub-sample | 1123083133 Sub-sample | 1123083133 Sub-sample | 1123083133 Sub-sample | 1123083134 | 1123083135 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 54 | 55 | 56 | 56.1 | 56.2 | 56.3 | 56.4 | 56.5 | 57 | 58 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | Yes | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **15%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | 15% Chrysotile | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Foyer Closets, Laundry Water Heater, Hallway Water Heater | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom |
| Material | Adhesive | Sheet Flooring | Sheet Flooring Adhesive | Vinyl Sheet Flooring | Leveling Compound | Vinyl Sheet Adhesive | Vinyl Sheet Flooring | Vinyl Sheet Adhesive | Vinyl Sheet Flooring | Vinyl Sheet Adhesive |
| Notes | AA45 | AA46 | AA46 | AA46 | AA46 | AA46 | AA46 | AA46 | AA47 | AA47 |
| Color | Brown | White | Yellow | Off-White | Gray | Yellow | Black, Green | Brown | White | Yellow |
| Homogeneous | Yes | No | Yes | No | No | Yes | No | Yes | No | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | 3% | 10% | <1% | | 7% | 10% | <1% | | 10% | |
| Fiberglass | | 2% | | | | | | | | |
| Synthetic Fibers | | | | | | 8% | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1123083135 Sub-sample | 1123083135 Sub-sample | 1123083135 Sub-sample | 1123083135 Sub-sample | 1123083136 | 1123083137 | 1123083137 Sub-sample | 1123083137 Sub-sample | 1123083137 Sub-sample | 1123083137 Sub-sample |
| Sample # | 58.1 | 58.2 | 58.3 | 58.4 | 59 | 60 | 60.1 | 60.2 | 60.3 | 60.4 |
| **Point Count** | | | | | | | | | | |
| Asbestos | Yes | No | No | No | No | No | Yes | No | No | No |
| Total | **15%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **15%** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | 15% Chrysotile | | | | | | 15% Chrysotile | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom | Hallway Bathroom |
| Material | Vinyl Sheet Flooring | Leveling Compound | Vinyl Sheet Adhesive | Vinyl Sheet Flooring | Vinyl Sheet Flooring | Vinyl Sheet Adhesive | Vinyl Sheet Flooring | Leveling Compound | Vinyl Sheet Adhesive | Vinyl Sheet Flooring |
| Notes | AA47 | AA47 | AA47 | AA47 | AA48 | AA48 | AA48 | AA48 | AA48 | AA48 |
| Color | Off-White | Gray | Yellow | Black, Green | White | Yellow | Off-White | Gray | Yellow | Black, Green |
| Homogeneous | No | No | Yes | No | No | Yes | No | No | Yes | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | 10% | 10% | <1% | | 7% | 10% | <1% |
| Fiberglass | | | | | 2% | | | | | |
| Synthetic Fibers | | | | 7% | | | | | 8% | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083137 Sub-sample | 1123083138 | 1123083139 | 1123083140 | 1123083141 | 1123083142 | 1123083143 | 1123083144 | 1123083144 Sub-sample | 1123083144 Sub-sample |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 60.5 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 67.1 | 67.2 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Hallway Bathroom | Foyer | Foyer | Foyer | Foyer | Foyer | Foyer | Living Room & Hallway | Living Room & Hallway | Living Room & Hallway |
| Material | Vinyl Sheet Adhesive | Clay Tile | Mortar | Clay Tile | Mortar | Clay Tile | Mortar | Carpet | Foam | Adhesive |
| Notes | AA48 | AA49 | AA49 | AA50 | AA50 | AA51 | AA51 | AA52 | AA52 | AA52 |
| Color | Brown | Red | Gray | Red | Gray | Red | Gray | Light-Gray | Black, Green, Red, Yellow | Off-White |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | | | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | 35% | 6% | 2% |
| Fiberglass | | | | | | | | 5% | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | Wood Fragments | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083145 | 1123083145 Sub-sample | 1123083145 Sub-sample | 1123083146 | 1123083146 Sub-sample | 1123083146 Sub-sample | 1123083147 | 1123083147 Sub-sample | 1123083147 Sub-sample | 1123083148 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 68 | 68.1 | 68.2 | 69 | 69.1 | 69.2 | 70 | 70.1 | 70.2 | 71 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | No | No | No | No | No |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | | | | | | | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Living Room & Hallway | Living Room & Hallway | Living Room & Hallway | Living Room & Hallway | Living Room & Hallway | Living Room & Hallway | Family Room | Family Room | Family Room | Family Room |
| Material | Carpet | Foam | Adhesive | Carpet | Foam | Adhesive | Carpet | Foam | Adhesive | Carpet |
| Notes | AA53 | AA53 | AA53 | AA54 | AA54 | AA54 | AA55 | AA55 | AA55 | AA56 |
| Color | Light-Gray | Black, Green, Red, Yellow | Off-White | Light-Gray | Black, Green, Red, Yellow | Off-White | Light-Gray | Black, Green, Red, Yellow | Off-White | Light-Gray |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | 35% | 6% | 2% | 35% | 6% | 2% | 25% | 8% | 2% | 25% |
| Fiberglass | 5% | | | 5% | | | 5% | | | 5% |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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NVLAP TESTING ilac-MRA
NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1123083148 Sub-sample | 1123083148 Sub-sample | 1123083149 | 1123083149 Sub-sample | 1123083149 Sub-sample | 1123083150 | 1123083151 | 1123083152 | 1123083153 | 1123083154 |
| Sample # | 71.1 | 71.2 | 72 | 72.1 | 72.2 | 73 | 74 | 75 | 76 | 77 |
| **Point Count** | | | | | | | | | | |
| Asbestos | No | No | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Total | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **N.D.** | **15%** | **15%** | **15%** | **10%** | **10%** |
| 1° Type | | | | | | 15% Chrysotile | 15% Chrysotile | 15% Chrysotile | 10% Chrysotile | 10% Chrysotile |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Family Room | Family Room | Family Room | Family Room | Family Room | Laundry Room Closet | Laundry Room Closet | Laundry Room Closet | Laundry Water Heater | Laundry Water Heater |
| Material | Foam | Adhesive | Carpet | Foam | Adhesive | Sheet Flooring | Sheet Flooring | Sheet Flooring | Sheet Flooring | Sheet Flooring |
| Notes | AA56 | AA56 | AA57 | AA57 | AA57 | AA58 | AA59 | AA60 | AA61 | AA62 |
| Color | Black, Green, Red, Yellow | Off-White | Light-Gray | Black, Green, Red, Yellow | Off-White | Beige, Red | Beige, Red | Beige, Red | Beige, Brown | Beige, Brown |
| Homogeneous | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | x | x | x |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | 8% | 2% | 25% | 8% | 2% | 4% | 4% | 4% | | |
| Fiberglass | | | 5% | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083155 | 1123083156 | 1123083156 Sub-sample | 1123083157 | 1123083157 Sub-sample | 1123083158 | 1123083158 Sub-sample | 1123083159 | 1123083160 | 1123083161 |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample # | 78 | 79 | 79.1 | 80 | 80.1 | 81 | 81.1 | 82 | 83 | 84 |
| **Point Count** | | **<0.1%** | | | | **<0.1%** | | | | |
| Asbestos | Yes | Yes | No | No | No | Yes | No | No | No | No |
| Total | **10%** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **<1%** | **N.D.** | **N.D.** | **N.D.** | **N.D.** |
| 1° Type | 10% Chrysotile | <1% Chrysotile | | | | <1% Chrysotile | | | | |
| 2° Type | | | | | | | | | | |
| 3° Type | | | | | | | | | | |
| Location | Laundry Water Heater | Pool | Pool | Pool | Pool | Pool | Pool | Foyer Closet, Interior of Walls | Foyer Closet, Interior of Walls | Foyer Closet, Interior of Walls |
| Material | Sheet Flooring | Concrete | Stucco | Concrete | Stucco | Concrete | Stucco | Insulation | Insulation | Insulation |
| Notes | AA63 | AA64 | AA64 | AA65 | AA65 | AA66 | AA66 | AA67 | AA68 | AA69 |
| Color | Beige, Brown | Gray | White | Gray | White | Gray | White | Yellow | Yellow | Yellow |
| Homogeneous | No | No | No | No | No | No | No | Yes | Yes | Yes |
| Components: | | | | | | | | | | |
| Non-fibrous Material | x | x | x | x | x | x | x | | | |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | None | None | None | None | None | None | None |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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NVLAP Lab Code: 200548-0



California Water Boards ELAP Certificate 2723

**Amended Report: Original Release 08/31/2023**
**Reason:** **1000-Point Count**

Customer: Hazard Management Consulting
211 West Avenida Cordoba
San Clemente, CA 92672

Job Location: 2109 East Santa Clara Avenue
Santa Ana, CA 92705

| | 1123083162 | 1123083163 | 1123083164 |
|---|---|---|---|
| Sample # | 85 | 86 | 87 |
| **Point Count** | | | |
| Asbestos | Yes | Yes | Yes |
| Total | **34%** | **36%** | **34%** |
| 1° Type | 22% Chrysotile | 24% Chrysotile | 22% Chrysotile |
| 2° Type | 12% Crocidolite | 12% Crocidolite | 12% Crocidolite |
| 3° Type | | | |
| Location | Front Yard - Exposed Pipe | Front Yard - Exposed Pipe | Front Yard - Exposed Pipe |
| Material | Cementitious Pipe | Cementitious Pipe | Cementitious Pipe |
| Notes | AA70 | AA71 | AA72 |
| Color | Gray | Gray | Gray |
| Homogeneous | No | No | No |

Components:

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Non-fibrous Material | x | x | x | | | | | | | |
| Paint | | | | | | | | | | |
| Tar | | | | | | | | | | |
| Cellulose | | | | | | | | | | |
| Fiberglass | | | | | | | | | | |
| Synthetic Fibers | | | | | | | | | | |
| Other 1 | | | | | | | | | | |
| Other 2 | | | | | | | | | | |
| Comments/ Method Departures | None | None | None | | | | | | | |

Samples were analyzed in accordance with EPA - Appendix E to Subpart E of 40 CFR Part 763: "Interim Method of the Determination of Asbestos in Bulk Insulation Samples" and EPA/600/R-93/116: "Test Method for the Determination of Asbestos in Bulk Building Materials". The limit of detection for asbestos is <1%, and the limit of quantification is 1.0% or greater. The State of California defines an asbestos-containing construction material as having more than 0.1% asbestos. All samples are disposed of after 30 days unless the

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**Various sample locations combined for composite purposes. ***Not covered by NVLAP accreditation. Standard Deviation is ± 1.5% for mean concentrations of 2-10% asbestos and ± 6.7% for mean concentrations of >10% asbestos (1 Standard Deviation).

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Orange, CA 92868
Tel: 800.665.7586 Fax: 714.937.0755 envirocheck.com

# Chain of Custody - General

| | |
|---|---|
| Date Sampled: | 8/29/23 |
| Sampled By: | Troy Taylor |
| P.O. #: | |
| Project Name: | 2109 E Santa Clara Ave. |
| Contact: | Troy Taylor |
| Address: | 2109 E Santa Clara Ave |
| City, State, Zip: | Santa Ana, CA 92705 |
| Additional Info: | |

| | |
|---|---|
| Client: | Hazard Management Consulting |
| Contact Name: | Troy Taylor |
| Address: | 211 W. Avenida Cordoba |
| City, State, Zip: | San Clemente, CA 92672 |
| Phone: | 949 361 3902 |
| Email: | troyt@hmcinc.biz |

| ID | Lab ID | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| AA1 | 112308 3078 | House & Garage - Roof | rock paper shingle | 2,500 | NA | NA | NA | NA |
| AA2 | 3079 | | | | | | | |
| AA3 | 3080 | | | | | | | |
| AA4 | 3081 | | | | | | | |
| AA5 | 3082 | | | | | | | |
| AA6 | 3083 | House - East Awning | rock paper sheet | 250 | | | | |
| AA7 | 3084 | | | | | | | |
| AA8 | 3085 | | | | | | | |
| AA9 | 3086 | House & Garage - Exterior | stucco/concrete | 2,000 | | | | |
| AA10 | 3087 | | | | | | | |
| AA11 | 3088 | | | | | | | |
| AA12 | 3089 | | | | | | | |
| AA13 | 3090 | | | | | | | |
| AA14 | 3091,92 | House ~~Interior~~ Exterior | brick/mortar | 750 | | | | |
| AA15 | 3093,94 | | | | | | | |
| AA16 | 3095,96 | | | | | | | |
| AA17 | 3097 | House - Interior | drywall/sheet rock | 2,500 | | | | |
| AA18 | 3098 | | | | | | | |
| AA19 | 3099 | | | | | | | |
| AA20 | 3100 | | | | | | | |

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/30/23 | 1145 | Troy Taylor HMC [signature] | Alexi Alaniz [signature] ~~11:42 AM~~ 8-30-23 11:45 AM |
| | | | Javier Osorio [signature] 8/30/23 12:30PM |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other : _____

## Procedure Requested

### Asbestos Bulk

- [x] NVLAP-accredited:
  EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples
  EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited: Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM** NIOSH 7400
- [ ] **Asbestos by TEM** Method: _____

### Lead

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

### Non-Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

### Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab

### Bacteria

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other : _____
- [ ] Other : _____

## Turnaround Time (T.A.T.) Key & Definitions:

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

*Same Day:* Samples must be received by lab before 2 PM for same business day results
*Next Day:* Results provided by end of next business day
*2 Days:* Results provided by end of 2nd business day *(e.g. received Mon., results by Wed.)*
*3-5 Days:* Results provided by end of 5th business day or sooner
*6-10 Days:* Results provided by end of 10th business day or sooner

**ENVIRO CHECK**

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Tel: 800.665.7586 Fax: 714.937.0755 envirocheck.com

# Chain of Custody - General

| | |
|---|---|
| Client: | Hazard Management Consulting |
| Contact Name: | Troy Taylor |
| Address: | 211 W. Avenida Cordoba |
| City, State, Zip: | San Clemente, CA 92672 |
| Phone: | 949 361 3902 |
| Email: | troyt@hmcinc.biz |

| | |
|---|---|
| Date Sampled: | 8/29/23 |
| Sampled By: | Troy Taylor |
| P.O. #: | NA |
| Project Name: | 2101 E. Santa Clara Ave. |
| Contact: | Troy Taylor |
| Address: | 2101 E. Santa Clara Ave |
| City, State, Zip: | Santa Ana, CA 92705 |
| Additional Info: | |

| ID | Lab ID | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| A21 | 112308 3210 | Interior/Exterior Walls | texture/concrete | 6,500 | NA | NA | NA | NA |
| A22 | 11 | Basement | AC Duct Insulation | 200 | | | | |
| A23 | 12 | | | | | | | |
| A24 | 13 | | | | | | | |
| A25 | 14 | Basement / Crawl Space | AC Duct Insulation | 600 | | | | |
| A26 | 15 | | | | | | | |
| A27 | 16 | | | | | | | |
| A28 | 17 | Garage - Interior/Exterior Wall | stucco/concrete | 1,300 | | | | |
| A29 | 18 | | | | | | | |
| A30 | 19 | | | | | | | |
| A31 | 20 | | | | | | | |
| A32 | 21 | | | | | | | |
| A33 | 22 | Garage | drywall | 100 | | | | |
| A34 | 23 | | | | | | | |
| A35 | 24 | | | | | | | |

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other : _____

## Procedure Requested

**Asbestos Bulk**

- [x] NVLAP-accredited:
  EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples
  EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited:
  Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM**
  NIOSH 7400
- [ ] **Asbestos by TEM**
  Method: _____

**Lead**

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

**Non-Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

**Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab

**Bacteria**

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other : _____
- [ ] Other : _____

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/30/23 | 1145 | Troy Taylor HMC | Alex: Alarcon 8-30-23 11:45 AM |
| | | | Javier Osorio 8/30/23 1117PM |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

**Turnaround Time (T.A.T.) Key & Definitions:**

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

- *Same Day:* Samples must be received by lab before 2 PM for same business day results
- *Next Day:* Results provided by end of next business day
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- *6-10 Days:* Results provided by end of 10th business day or sooner

**ENVIRO CHECK**

2211 West Orangewood Avenue
Orange, CA 92868
Tel: 800.665.7586 Fax: 714.937.0755 envirocheck.com

# Chain of Custody - General

| | |
|---|---|
| Client: Hazard Management Consulting | Date Sampled: 8/29/23 |
| Contact Name: Troy Taylor | Sampled By: Troy Taylor |
| Address: 211 W. Avenida Cordoba | P.O. #: NA |
| City, State, Zip: San Clemente, CA 92672 | Project Name: 2101 E. Santa Clara Ave |
| Phone: 949 361 3902 | Contact: Troy Taylor |
| Email: troyt@hmcinc.biz | Address: 2101 E. Santa Clara Ave. |
| | City, State, Zip: Santa Ana, CA 92705 |
| | Additional Info: |

| ID | Lab ID 1123083165 | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| A1 | 66,67,68,69,70,71,72 | House & Garage - Roof | tar paper | 2,200 | NA | NA | NA | NA |
| A2 | 73, 74, 75, 76 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| A3 | 77, 78, 79, 80 81, 82, 83, 84 | | | | | | | |
| A4 | 85, 86, 87, 88, 89, 90 | | | | | | | |
| A5 | 91, 92, 93, 94 | | | | | | | |
| A6 | 95 | House - Awning | clay shingle | 550 | | | | |
| A7 | 96 | ↓ | ↓ | ↓ | | | | |
| A8 | 97 | | | | | | | |
| A9 | 98 | Chimney | brick & mortar | 500 | | | | |
| A10 | 99 | ↓ | ↓ | ↓ | | | | |
| A11 | 3200 | | | | | | | |
| A12 | 01 | West Room | texture/concrete | 500 | | | | |
| A13 | 02 | ↓ | ↓ | ↓ | | | | |
| A14 | 03 | | | | | | | |
| A15 | 04 | Interior/Exterior Walls | texture/concrete | 6,500 | | | | |
| A16 | 05 | ↓ | ↓ | ↓ | | | | |
| A17 | 06 | | | | | | | |
| A18 | 07 | | | | | | | |
| A19 | 08 | | | | | | | |
| A20 | 09 | | | | | | | |

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other : _____

## Procedure Requested

**Asbestos Bulk**

- [x] NVLAP-accredited: EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited: Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM** NIOSH 7400
- [ ] **Asbestos by TEM** Method: _____

**Lead**

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

**Non-Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

**Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab

**Bacteria**

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other : _____

- [ ] Other : _____

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/30/23 | 1145 | Troy Taylor HMC | Avari Alani 8-30-23 11:45AM |
| | | | Javier Osorio 8/30/23 1:00PM |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

**Turnaround Time (T.A.T.) Key & Definitions:**

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

- *Same Day:* Samples must be received by lab before 2 PM for same business day results
- *Next Day:* Results provided by end of next business day
- *2 Days:* Results provided by end of 2nd business day *(e.g. received Mon., results by Wed.)*
- *3-5 Days:* Results provided by end of 5th business day or sooner
- *6-10 Days:* Results provided by end of 10th business day or sooner

# ENVIRO CHECK

2211West Orangewood Avenue
Orange, CA 92868
Tel: 800.665.7586 Fax: 714.937.0755 envirocheck.com

# Chain of Custody - General

| | |
|---|---|
| Date Sampled: | 8/29/23 |
| Sampled By: | Troy Taylor |
| P.O. #: | |
| Project Name: | 2109 E Santa Clara Ave. |
| Contact: | Troy Taylor |
| Address: | 2109 E Santa Clara Ave |
| City, State, Zip: | Santa Ana, CA 92705 |
| Additional Info: | |

| | |
|---|---|
| Client: | Hazard Management Consulting |
| Contact Name: | Troy Taylor |
| Address: | 211 W. Avenida Cordoba |
| City, State, Zip: | San Clemente, CA 92672 |
| Phone: | 949 361 3902 |
| Email: | troyt@hmcinc.biz |

| ID | Lab ID | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| AA21 | 112308 3101 | House - Interior | drywall/sheetrock | 2,500 | NA | NA | NA | NA |
| AA22 | 3102 | Muster Bathroom | wallpaper | 300 | | | | |
| AA23 | 3103 | | | | | | | |
| AA24 | 3104 | | | | | | | |
| AA25 | 3105 | Family Room | wallpaper | 400 | | | | |
| AA26 | 3106 | | | | | | | |
| AA27 | 3107 | | | | | | | |
| AA28 | 3108 | Hall | wallpaper | 700 | | | | |
| AA29 | 3109 | | | | | | | |
| AA30 | 3110 | | | | | | | |
| AA31 | 3111 | Kitchen | wallpaper | 550 | | | | |
| AA32 | 3112 | | | | | | | |
| AA33 | 3113 | | | | | | | |
| AA34 | 3114 | Laundry Room/Bathroom | wallpaper | 250 | | | | |
| AA35 | 3115 | | | | | | | |
| AA36 | 3116 | | | | | | | |
| AA37 | 3117 | Kitchen | linoleum | 300 | | | | |
| AA38 | 3118 | | | | | | | |
| AA39 | 3119 | | | | | | | |
| AA40 | 3120, 21 | Laundry Room / Bathroom | linoleum | 150 | | | | |

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/30/23 | 1145 | Troy Taylor HMC [signature] | Alexi Alarcon [signature] ~~[illegible]~~ 8-30-23 11:45AM |
| | | | Javier Osorio [signature] 8/30/23 12:30PM |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other: _____

## Procedure Requested

### Asbestos Bulk

- [x] NVLAP-accredited:
  EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples
  EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited: Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM** NIOSH 7400
- [ ] **Asbestos by TEM** Method: _____

### Lead

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

### Non-Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

### Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab

### Bacteria

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other: _____
- [ ] Other: _____

## Turnaround Time (T.A.T.) Key & Definitions:

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

- *Same Day:* Samples must be received by lab before 2 PM for same business day results
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- *6-10 Days:* Results provided by end of 10th business day or sooner

Revised by RAM 9/7/2021

**ENVIRO CHECK**

2211 West Orangewood Avenue
Orange, CA 92868
Tel: 800.665.7586 Fax: 714.937.0755 envirocheck.com

# Chain of Custody - General

| | |
|---|---|
| Client: Hazard Management Consulting | Date Sampled: 8/29/23 |
| Contact Name: Troy Taylor | Sampled By: Troy Taylor |
| Address: 211 W. Avenida Cordoba | P.O. #: |
| City, State, Zip: San Clemente, CA 92672 | Project Name: 2109 E Santa Clara Ave. |
| Phone: 949 361 3902 | Contact: Troy Taylor |
| Email: troyt@hmcinc.biz | Address: 2109 E Santa Clara Ave |
| | City, State, Zip: Santa Ana, CA 92705 |
| | Additional Info: |

| ID | Lab ID | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| AA41 | 112308 3122, 23 | Laundry Room / Bathroom | linoleum | 150 | NA | NA | NA | NA |
| AA42 | 3124, 25 | ↓ | ↓ | ↓ | | | | |
| AA43 | 3126, 27 | Foyer Closets, Laundry Water Heater, Hall Water Heater | linoleum | 200 | | | | |
| AA44 | 3128, 29 | ↓ | ↓ | ↓ | | | | |
| AA45 | 3130, 31 | ↓ | ↓ | ↓ | | | | |
| AA46 | 3132, 33 | Hall Bathroom | linoleum | 100 | | | | |
| AA47 | 3134, 35 | ↓ | ↓ | ↓ | | | | |
| AA48 | 3136, 37 | ↓ | ↓ | ↓ | | | | |
| AA49 | 3138, 39 | Foyer | Clay tile/mortar | 120 | | | | |
| AA50 | 3140, 41 | ↓ | ↓ | ↓ | | | | |
| AA51 | 3142, 43 | ↓ | ↓ | ↓ | | | | |
| AA52 | 3144 | Living Room & Hall | carpet | 400 | | | | |
| AA53 | 3145 | ↓ | ↓ | ↓ | | | | |
| AA54 | 3146 | ↓ | ↓ | ↓ | | | | |
| AA55 | 3147 | Family Room | carpet | 300 | | | | |
| AA56 | 3148 | ↓ | ↓ | ↓ | | | | |
| AA57 | 3149 | ↓ | ↓ | ↓ | | | | |
| AA58 | 3150 | Laundry Room Closet | linoleum | 20 | | | | |
| AA59 | 3151 | ↓ | ↓ | ↓ | | | | |
| AA60 | 3152 | ↓ | ↓ | ↓ | | | | |

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other: _____

## Procedure Requested

**Asbestos Bulk**

- [x] NVLAP-accredited: EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples; EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited: Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM** NIOSH 7400
- [ ] **Asbestos by TEM** Method: _____

**Lead**

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

**Non-Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

**Viable Mold**

- [ ] Air
- [ ] Bulk
- [ ] Swab

**Bacteria**

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other: _____

- [ ] Other: _____

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/29/23 | | Troy Taylor HMC | Alexi Alaniz ~~8-30-23~~ 11:45AM |
| | | | Javier Osorio 8/30/23 12:30PM |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

**Turnaround Time (T.A.T.) Key & Definitions:**

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

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# ENVIRO CHECK

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Orange, CA 92868
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# Chain of Custody - General

| | |
|---|---|
| Date Sampled: | 8/29/23 |
| Sampled By: | Troy Taylor |
| P.O. #: | |
| Project Name: | 2109 E Santa Clara Ave. |
| Contact: | Troy Taylor |
| Address: | 2109 E Santa Clara Ave |
| City, State, Zip: | Santa Ana, CA 92705 |
| Additional Info: | |

| | |
|---|---|
| Client: | Hazard Management Consulting |
| Contact Name: | Troy Taylor |
| Address: | 211 W. Avenida Cordoba |
| City, State, Zip: | San Clemente, CA 92672 |
| Phone: | 949 361 3902 |
| Email: | troyt@hmcinc.biz |

| ID | Lab ID | Location | Material/ Sample Type | Sq/Ft | Time On | Time Off | LPM | Media |
|---|---|---|---|---|---|---|---|---|
| AA61 | 112308 3153 | Laundry Water Heater | linoleum | 20 | NA | NA | NA | NA |
| AA62 | 3154 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA63 | 3155 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA64 | 3156 | Pool | plaster/concrete | 600 | ↓ | ↓ | ↓ | ↓ |
| AA65 | 3157 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA66 | 3158 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA67 | 3159 | Foyer Closet, Interior of walls | insulation | 300 | ↓ | ↓ | ↓ | ↓ |
| AA68 | 3160 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA69 | 3161 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA70 | 3162 | Front Yard - Exposed Pipe | cementitious pipe | 30 | ↓ | ↓ | ↓ | ↓ |
| AA71 | 3163 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |
| AA72 | 3164 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ |

## Turnaround Time (T.A.T.)

Please see Key below

- [x] Same Day
- [ ] Next Day
- [ ] 2 Days
- [ ] 3-5 Days
- [ ] 6-10 Days
- [ ] Other: _____

## Procedure Requested

### Asbestos Bulk

- [x] NVLAP-accredited:
  EPA - Appendix E to Subpart E of 40 CFR Part 763: Interim Method of the Determination of Asbestos in Bulk Insulation Samples
  EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials
- [ ] *NOT* NVLAP-accredited: Not building materials, e.g. soil, debris, dust wipe, paint, etc.

- [ ] **Asbestos by PCM** NIOSH 7400
- [ ] **Asbestos by TEM** Method: _____

### Lead

- [ ] Air
- [ ] Soil
- [ ] Paint Chip
- [ ] Dust Wipe
- [ ] Waste Profile (Circle applicable) TTLC / STLC / TCLP

Please provide 1/2 lb of sample for complete waste profile

### Non-Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab
- [ ] Tape Lift

### Viable Mold

- [ ] Air
- [ ] Bulk
- [ ] Swab

### Bacteria

- [ ] Quantitative Sewage Screen
- [ ] Qualitative Sewage Screen
- [ ] Other: _____
- [ ] Other: _____

| Date | Time | *Samples Relinquished By | Samples Received By |
|---|---|---|---|
| 8/30/23 | 1145 | Troy Taylor HMC [signature] | Javier Osorio [signature] 8/30/23 12:30PM<br>Alex Alani 2 [signature] 11:45AM 8-30-23 |

* By signing above, client acknowledges that he/she/it has read the terms and conditions on the reverse side hereof, and agrees to be bound thereby.

### Turnaround Time (T.A.T.) Key & Definitions:

*T.A.T. starts upon receipt and acceptance of samples by the laboratory*

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Revised by RAM 9/7/2021

# APPENDIX B

# CBI/CAC INFORMATION

# Certificate Of Completion

## Asbestos Building Inspector Refresher Course

**DOSH #:CA-015-06**

## Troy Taylor

**ABIR0202230001N35209**

**Alan Dages**
Principal Instructor

**Michael W. Horner**
Training Director

| 2/2/2023 | 2/2/2023 | 2/2/2023 | 2/2/2024 |
|---|---|---|---|
| Course Start Date | Course End Date | Exam Date | Expiration Date |

This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California

NATEC INTERNATIONAL

NATEC International, Inc.
National Association of Training and Environmental Consulting
1100 Technology Circle, Suite A, Anaheim, CA 92805 • www.natecintl.com • 800-969-3228

### Important Industry Contacts

CAL-OSHA: Ph# (916) 574-2993
(916) 483-0572 Fax Notification
Web: www.dir.ca.gov or calosha.com

CDPH/CLPPB: Ph# (510) 620-5600
Web: www.cdph.ca.gov/programs/CLPPB

SCAQMD: Ph# (909) 396-3739
Fax#(909) 396-3342

BAAQMD: Ph# (415) 749-4762


NATEC International, Inc.
National Association of Training and Environmental Consulting
Asbestos • Lead • Mold • HAZWOPER

P.O. Box 25205 Anaheim, CA 92825-5205
(714) 678-2750, (800) 969-3228, Fax (714) 678-2757
www.natecintl.com


NATEC International, Inc.
National Association of Training and Environmental Consulting
*Note: Card is not suitable substitute for certificate and is not accepted by SCAQMD as proof of certification

This Card Acknowledges That
Troy Taylor

Holds Training Certification For
Asbestos Building Inspector Refresher Course

Expiration: 2/2/2024

Training Date 2/2/2023
Certificate No. ABIR0202230001N35209

Michael W. Horner
Training Director

# Certificate Of Completion

## Asbestos Building Inspector Initial Course

**DOSH #:CA-015-05**

## Troy Taylor

**ABII0221220005N30743**

**John Daly**

Principal Instructor

Michael W. Horner

**Michael W. Horner**
Training Director

| 2/21/2022 | 2/23/2022 | 2/23/2022 | 2/23/2023 |
|---|---|---|---|
| Course Start Date | Course End Date | Exam Date | Expiration Date |

This course satisfies the education requirements for Asbestos accreditation under the Toxic Substances Control Act, Title II. This course has been approved by the Department of Industrial Relations, Division of Occupational Safety and Health of the State of California

NATEC International, Inc.
National Association of Training and Environmental Consulting

1100 Technology Circle- Suite A, Anaheim, CA 92805 • www.natecintl.com • 800-969-3228

Important Industry Contacts

CAL-OSHA: Ph# (916) 574-2993
(916) 483-0572 Fax Notification
Web: www.dir.ca.gov or calosha.com

CDPH/CLPPB: Ph# (510) 620-5600
Web: www.cdph.ca.gov/programs/CLPPB

SCAQMD: Ph# (909) 396-3739
Fax#(909) 396-3342

BAAQMD: Ph# (415) 749-4762

NATEC International, Inc.
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P.O. Box 25205 Anaheim, CA 92825-5205
(714) 678-2750, (800) 969-3228, Fax (714) 678-2757
www.natecintl.com

NATEC International, Inc.
National Association of Training and Environmental Consulting
*Note: Card is not suitable substitute for certificate and is not accepted by SCAQMD as proof of certification

This Card Acknowledges That
Troy Taylor

Holds Training Certification For
Asbestos Building Inspector Initial Course

Expiration: 2/23/2023

Training Date 2/21/2022
Certificate No. ABII0221220005N30743

Michael W. Horner
Training Director

State of California
Division of Occupational Safety and Health
**Certified Asbestos Consultant**

**John Vincent Payne**
Name

Certification No. **93-1112**

Expires on **07/16/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

# APPENDIX H

# ONSITE HYDROLOGY AND HYDRAULIC REPORT

# McDonalds Santa Ana

Onsite Hydrology and Hydraulics Report

2109 E Santa Clara Avenue, Santa Ana, CA 92705

APN: 396-261-26, 396-261-33, 396-261-38

**Prepared for**:

Michael Gregg
Director of Construction and Entitlements Stream Realty
3161 Michaelson Drive, Suite 100
Irvine, CA 92612
Ph: (805) 215-6453

**Prepared By**:

Hannah Luevano, P.E.
Kimley-Horn and Associate, Inc.
1100 Town and Country Road, Suite 700
Orange, CA 92868

CEQA Analysis Submittal: August 2023

## INTRODUCTION

The proposed project consists of the construction of a new McDonald's Restaurant in APN 396-261-26, 396-261-33, and 396-261-38 (2109 E Santa Clara Avenue, Santa Ana, CA 92705). The project is located north of E Santa Clara Avenue and is surrounded by commercial developments to the north, east and west side of the property. The site currently has existing residential buildings with three (3) driveway approaches and is surrounded by an existing wall. All existing items will be demolished and replaced with a new McDonald's restaurant, trash enclosure, drive through and associated parking lot.

The proposed project disturbs approximately 0.82 acres and will include improvements to the adjacent shared access aisle, east of the project. The existing drainage patterns shows runoff flowing from the northwest and northeast corner of the property and sheet flowing south (see Appendix B). With no existing stormdrain system within the parcel or any stormdrain lines adjacent to the right-of-way, the existing site's runoff sheet flows from the existing driveway approaches onto the existing curb and gutter on E Santa Clara Ave and flows east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave to the public stormwater system.

The proposed development will include the construction of the new restaurant building of approximately 3,975 square feet and a drive-thru west of the building. New landscaped area will be added throughout the project area as shown on the proposed conditions hydrology map (see Appendix B). The site will have one overall drainage area with three sub drainage areas.

Drainage management area 1 (DMA 1) will follow similar existing drainage patterns conditions and flow from the northeast and northwest corners to the south of the site. Roof drains will discharge at the surface and the stormwater will flow through curb and gutters and valley gutters to be captured and convey stormwater runoff towards one of three catch basins strategically placed throughout the site. The proposed catch basins will all be piped to a proposed BMP in the center southern portion of the project area. Stormwater runoff will discharge into a proposed underground detention system and will be pumped and discharged at an attenuated rated onto the curb and gutter off E Santa Clara Ave to match existing conditions. The stormwater will continue to flow east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave to the public stormwater system.

DMA 1 has a ridgeline separating the proposed restaurant area and the adjacent shared access. The access aisle will match existing conditions and will sheet flow from the northeast corner of the property to the southeast driveway approach off E Santa Clara Ave. Per the ALTA survey and utility locate, there is no existing public stormwater lines adjacent to the property. There will be driveway improvements on the existing road and public right-of-way will all match existing conditions. All existing drainage patterns will remain the same and runoff will flow from the curb and gutter off E Santa Clara Ave and east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave to the public stormwater system.

DMA 1 consists of three (3) inlets that direct stormwater to a single biofiltration BMP. Drainage area 3 (DA 3) consists of discharge coming from the roof drains, parking spaces and drive aisles into the proposed catch basin south of the site. This catch basin will be piped to the proposed biofiltration BMP and eventually into a proposed underground detention system, where the water will be pumped and

attenuated to the curb and gutter off E Santa Clara Ave to match existing conditions. Drainage area 2 (DA 2) contains flows from the northern drive-thru area. From this catch basin, the discharge will be piped into the proposed BMP south of the site. Drainage area 4 (DA 4) consists of flows on the western and southern portions of the drive-thru. Like the other catchment areas, the discharge from these areas will pipe to the proposed biofiltration BMP south of the site, enter the underground detention system and be pumped to the existing curb and gutter on Santa Clara Avenue at an attenuated rate.

## HYDROLOGY

The hydrology and hydraulic analysis was prepared in accordance with the Orange County Hydrology Manual (OC Hydrology Manual, 1986) and OC Local Drainage Manual 2020. Per the drainage manuals, minimum recurrence intervals for the design of new local drainage facilities shall be:

- Habitable structures shall have 100-year flood protection
- A 25-year storm event for all open and underground channels and storm drains with drainage areas less than 640 acres, and watershed tributary the Santa Ana River. (Chapter 4, Section II)
- Analysis of all storm events shall be based on "high confidence level"

In the existing condition, storm water runoff from the existing building, driveways, and parking surface flow from the northeast and northwest corners of the site, south towards the E. Santa Clara Ave. All stormwater runoff is being contained within the property limits because of the existing surrounding wall. There is no stormdrain system in existing conditions and no public stormdrain main off E. Santa Clara. All drainage is sheet flowing off site and to the public street.

In the proposed condition, during low flow storm events, a series of curb and gutter and valley gutters will be installed along the north, east and southern ends of the site to capture and convey storm water runoff. The stormwater runoff will be diverted towards one of three (3) new on-site catch basins, which will be located on the southwest of the development. Storm water will then be conveyed to an underground detention system sized to retain the design capture storm. Stormwater will be pumped from the proposed underground retention tank to the existing curb and gutter on Santa Clara Ave. The proposed 2-year flow will be less than the existing 2-year flow.

During large storm events (25 & 100-year storm) storm water runoff will enter the proposed underground retention system and be pumped out and onto the curb and gutter off E Santa Clara Ave and flow east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave to the public stormwater system. In storm events larger than the 100-year storm, the water will overflow from the detention basin into a curb cut leading to landscaping, and eventually into the public valley gutter along E. Santa Clara Ave. The stormdrain pipes have also been sized for the 100-year storm. Refer to Appendix C for more information on proposed large storm event hydrology conditions.

The goal of the project is to keep flowrates for the proposed project conditions from exceeding existing conditions peak flows discharging directly to the on-site storm drain system for 100-year and 25-year storm events. A rational method analysis in accordance with the Orange County Hydrology Manual was completed to calculate the peak discharges for existing conditions and proposed project conditions

(Refer to Appendices D-E for calculations). A review of soil maps from the Hydrology Manual showed that the existing soils consisted of hydrologic group B as shown in the Soils Map in Appendix A. Soil group B is defined as soils having moderate infiltration rates and was used to calculate the soil loss rates. In addition, antecedent moisture condition (AMC) of 2 was used to calculate the 25-year peak flows and 100-year storm event. The land use for each subarea was selected based on the percent pervious for existing and proposed project conditions.

The Orange County Hydrology Manual was used to complete the rational method analysis. In accordance with the Orange County WQMP TGD the project is not hydromod exempt and must also detain the difference in volume and attenuate the discharge created during the 2-year, 24-hour storm event. The additional peak flow from existing to proposed conditions, as well as the 2-year, 24-hour storm event, will be accounted for in the underground detention system and will pump onto the right-of-way to match existing conditions and attenuate the peak flow. The underground detention area will capture the additional storage required to attenuate peak flows. Please refer to Appendices for more information and calculation outputs.

Hydrology results for existing and proposed conditions are included in Appendix B and Appendix C, respectively, and shown in Tables 1 -3 below.

**Table 1: Existing Conditions Rational Method Results**

| Drainage Area | Area (acres) | Time of Concentration (min) | 25-year Peak Flow (cfs) | 100-year Peak Flow (cfs) |
|---|---|---|---|---|
| 1 | 0.82 | 10.63 | 2.39 | 3.11 |

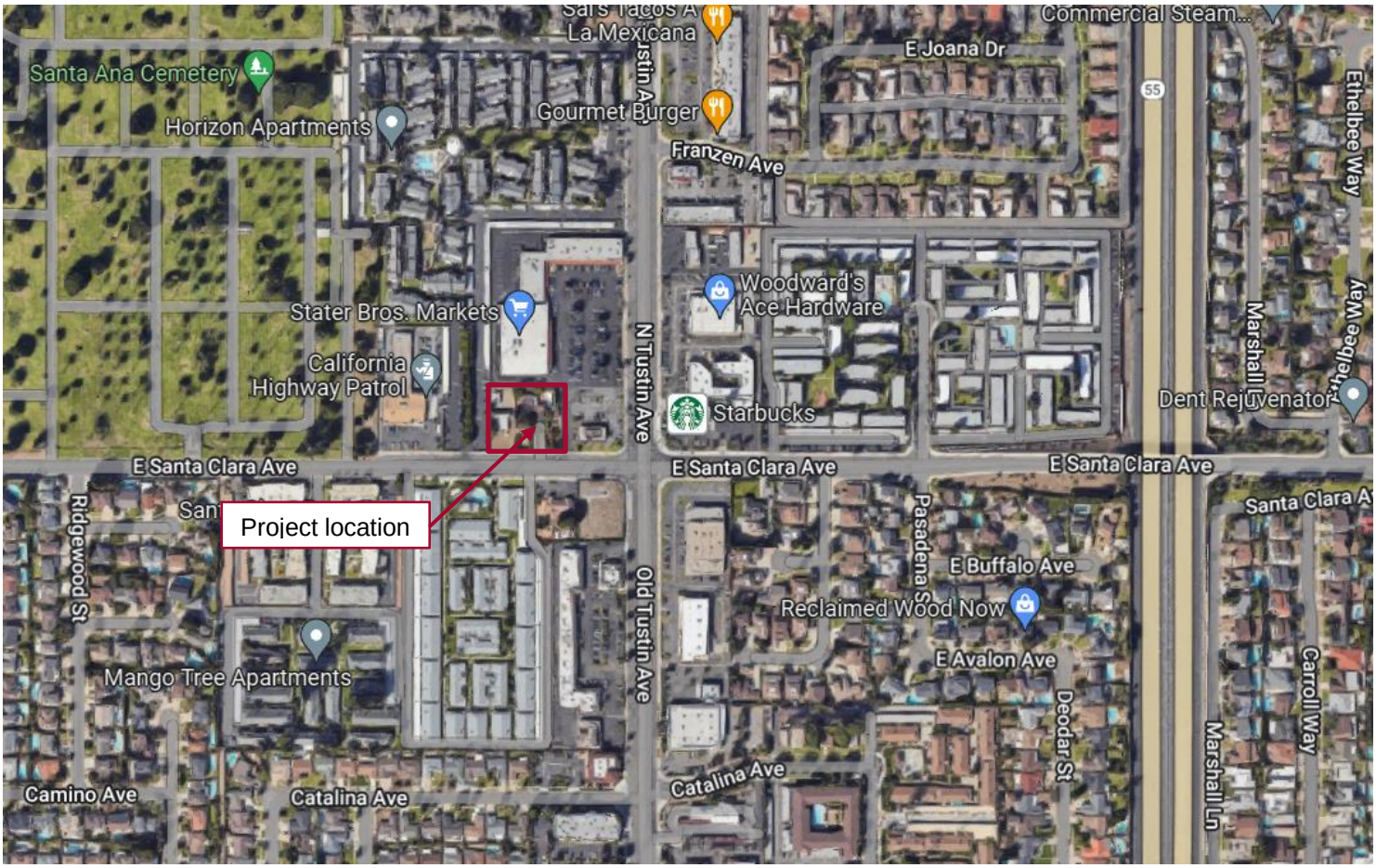
**Table 2: Proposed Conditions Rational Method Results**

| Drainage Area | Area (acres) | Time of Concentration (min) | 25-year Peak Flow (cfs) | 100-year Peak Flow (cfs) |
|---|---|---|---|---|
| 1 | 0.82 | 5.2 | 3.00 | 3.90 |

**Table 3: Summary of Results**

| Drainage Area | Area (acres) | 50-year Required Detention Volume (CF) | Proposed Detention Volume (CF) | 25-year & 100-year Peak pump discharge rate | 25-year Peak Flow Reduction (cfs) | 100-year Peak Flow Reduction (cfs) |
|---|---|---|---|---|---|---|
| 1 | 0.82 | 1638 | 3845 | 0.87 cfs | **-0.61 cfs** | **-0.79 cfs** |

**Figure 1: McDonald's Santa Ana Project Location Map**



N.T.S

# APPENDIX A: SOILS MAP

SUBJECT TO FURTHER REVISION

## LEGEND

City Boundaries

**Hydrologic Soil Groups**

- A Soils
- B Soils
- C Soils
- D Soils

Source:
Soils: Natural Resources Conservation Service (NRCS)
Soil Survey - soil_ca678, Orange County & Western Riverside
Date of publication: 2006-02-08
http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm

Project Site

LOS ANGELES COUNTY
ORANGE COUNTY
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
San Diego County

Pacific Ocean
San Pedro Bay
San Pedro Channel

0 2.5 5 10 Kilometers
0 1.8 3.6 7.2 Miles

TITLE
NRCS HYDROLOGIC SOILS GROUPS

JOB
ORANGE COUNTY INFILTRATION STUDY
ORANGE CO. CA

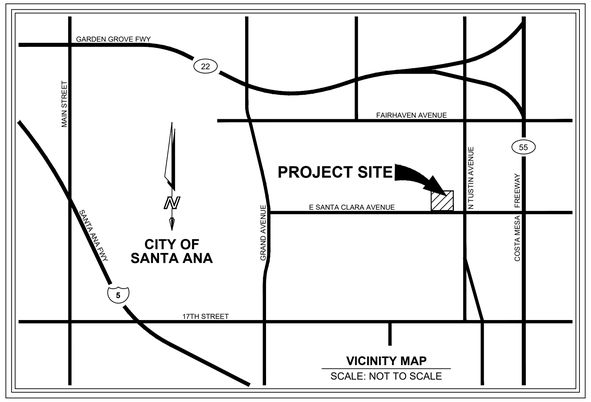
| | |
|---|---|
| SCALE | 1" = 1.8 miles |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 02/09/11 |
| JOB NO. | 9526-E |

PACE Advanced Water Engineering

FIGURE
XVI-2a

P:\9526E\6-GIS\Mxds\Reports\InfiltrationFeasability_20110215\9526E_FigureXVI-2a_HydroSoils_20110215.mxd

# APPENDIX B: EXISTING CONDITIONS HYDROLOGY MAP



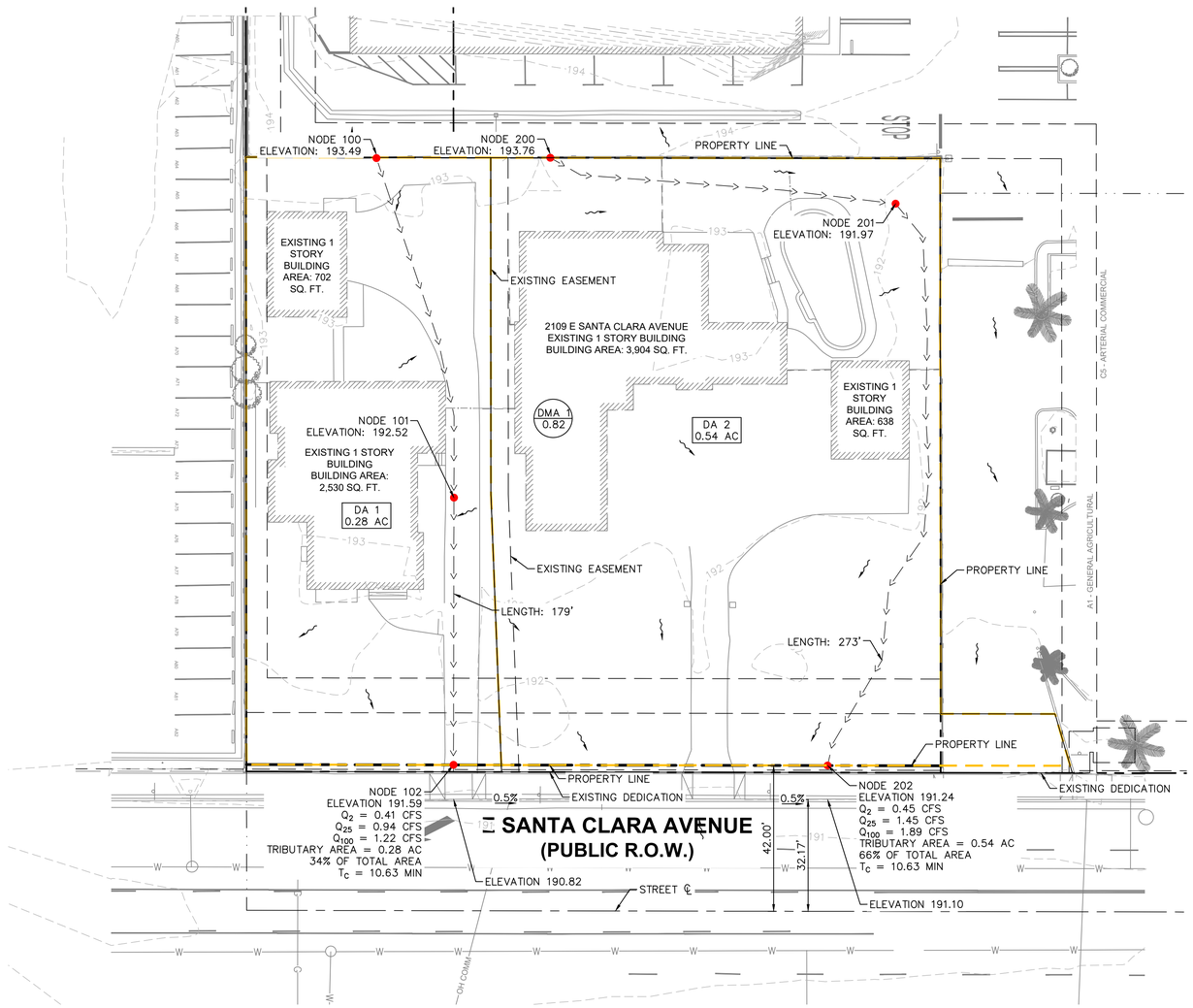

# LEGEND

- CENTER LINE
- PROPERTY LINE
- DEDICATION LINE
- EASEMENT LINE
- DRAINAGE MAP AREA (DMA) BOUNDARY
- PROPOSED FLOW LINE
- SD — PROPOSED STORM DRAIN LINE
- EXISTING FLOW DIRECTION
- LONGEST HYDROLOGIC PATH
- NODE

| EXISTING CONDITIONS (DMA 1) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 35531 (0.82) |
| IMPERVIOUS AREA, SF (ACRES) | 16275 (0.38) |
| PERVIOUS AREA, SF (ACRES) | 19256 (0.44) |
| IMPERVIOUS FRACTION (IMP) | 0.46 |
| C | 0.50 |
| 2-YEAR DEPTH, INCHES | 2.05 |

| EXISTING CONDITIONS (DA 1) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 23078 (0.54) |
| IMPERVIOUS AREA, SF (ACRES) | 9724 (0.22) |
| PERVIOUS AREA, SF (ACRES) | 13354 (0.31) |
| IMPERVIOUS FRACTION (IMP) | 0.42 |
| C | 0.50 |
| 2-YEAR DEPTH, INCHES | 2.05 |

| EXISTING CONDITIONS (DA 2) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 12453 (0.29) |
| IMPERVIOUS AREA, SF (ACRES) | 6936 (0.16) |
| PERVIOUS AREA, SF (ACRES) | 5517 (0.13) |
| IMPERVIOUS FRACTION (IMP) | 0.56 |
| C | 0.50 |
| 2-YEAR DEPTH, INCHES | 2.05 |




NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE
1" = 20'
WHEN PRINTED AT FULL SIZE
(24"X36")

Underground Service Alert
of Southern California
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TWO WORKING DAYS
BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

FILE NO.:

R-

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88

THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.

THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO RCE NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY-HORN
3100 TOWN & COUNTRY RD
SUITE 700
(213) 261-4040

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION:

JASON GABRIEL

SENIOR CIVIL ENGINEER RCE NO.: 90371
DESIGNED: HL DRAWN: MH CHECKED: HL

PRINCIPAL CIVIL ENGINEER RCE NO.: 62968

DATE
7/11/2023
XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

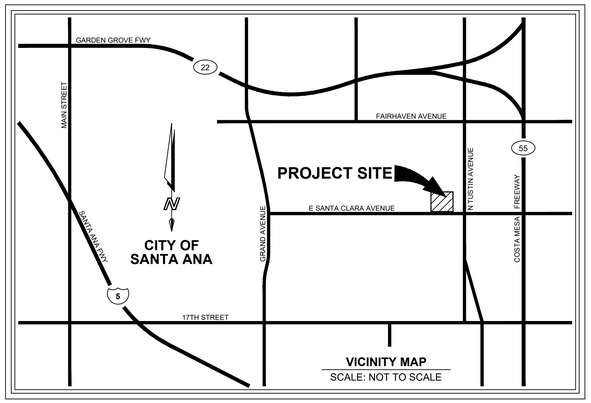
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

# EXISTING HYDROLOGY MAP

SHEET NO.

# APPENDIX C: PROPOSED CONDITIONS HYDROLOGY MAP




# LEGEND

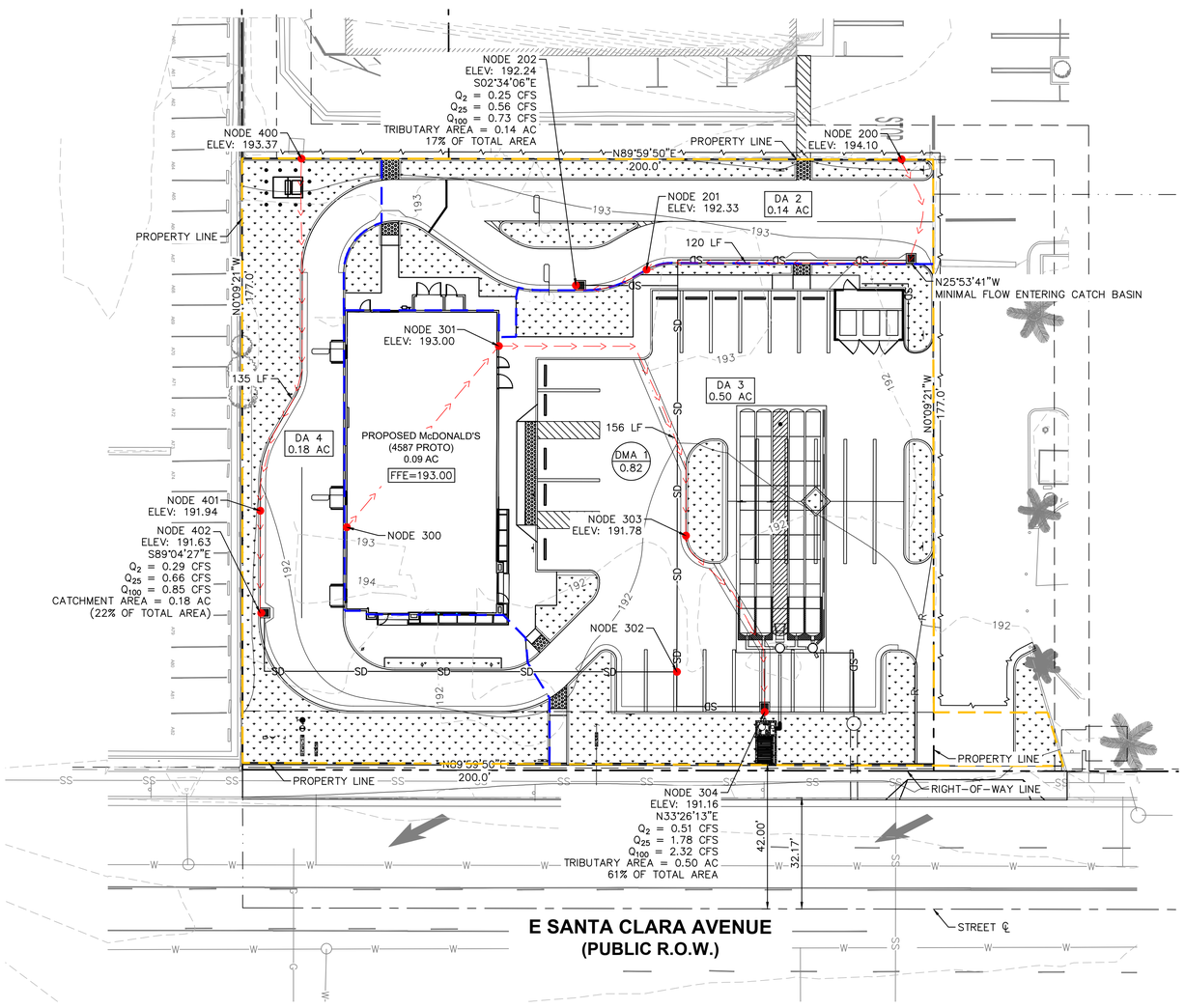
- CENTER LINE
- PROPERTY LINE
- DEDICATION LINE
- EASEMENT LINE
- DRAINAGE AREA BOUNDARY
- CATCHMENT AREA BOUNDARY
- PROPOSED FLOW LINE
- SD — PROPOSED STORM DRAIN LINE
- LONGEST HYDROLOGIC PATH
- CONFLUENCE POINT (CP)
- LANDSCAPE/PLANTER AREA

| PROPOSED CONDITIONS (DMA 1) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 35531 (0.82) |
| IMPERVIOUS AREA, SF (ACRES) | 26973 (0.63) |
| PERVIOUS AREA, SF (ACRES) | 8558 (0.18) |
| IMPERVIOUS FRACTION (IMP) | 0.78 |
| C | 0.72 |
| 2-YEAR DEPTH, INCHES | 2.05 |
| 2-YEAR FLOW | 1.62 |

| PROPOSED CONDITIONS (DA 2) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 5879 (0.14) |
| IMPERVIOUS AREA, SF (ACRES) | 4229 (0.10) |
| PERVIOUS AREA, SF (ACRES) | 1650 (0.04) |
| IMPERVIOUS FRACTION (IMP) | 0.72 |
| C | 0.72 |
| 2-YEAR DEPTH, INCHES | 2.05 |
| 2-YEAR FLOW | 0.28 |

| PROPOSED CONDITIONS (DA 3) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 21784 (0.50) |
| IMPERVIOUS AREA, SF (ACRES) | 18513 (0.43) |
| PERVIOUS AREA, SF (ACRES) | 3271 (0.08) |
| IMPERVIOUS FRACTION (IMP) | 0.85 |
| C | 0.72 |
| 2-YEAR DEPTH, INCHES | 2.05 |
| 2-YEAR FLOW | 0.99 |

| PROPOSED CONDITIONS (DA 4) | |
|---|---|
| TOTAL AREA, SF (ACRES) | 7868 (0.18) |
| IMPERVIOUS AREA, SF (ACRES) | 4231 (0.10) |
| PERVIOUS AREA, SF (ACRES) | 3637 (0.08) |
| IMPERVIOUS FRACTION (IMP) | 0.54 |
| C | 0.72 |
| 2-YEAR DEPTH, INCHES | 2.05 |
| 2-YEAR FLOW | 0.36 |

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FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
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DATE
7/11/2023
XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

## PROPOSED HYDROLOGY MAP

SHEET NO.

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

# APPENDIX D: 25-YEAR STORM ANALYSIS FOR EXISTING CONDITIONS AND PROPOSED CONDITIONS

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
         (c) Copyright 1983-2011 Advanced Engineering Software (aes)
             Ver. 18.0  Release Date: 07/01/2011  License ID 1499

                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALDS SANTA ANA                                                      *
* 25-YEAR EXISTING                                                         *
* KIMLEY-HORN                                                              *
 ***************************************************************************

  FILE NAME: MCD100E.DAT
  TIME/DATE OF STUDY: 11:25 06/27/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =   25.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.49  DOWNSTREAM(FEET) =    192.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.203
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.270
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.16      0.30     0.500    56    6.20
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.59
  TOTAL AREA(ACRES) =      0.16   PEAK FLOW RATE(CFS) =      0.59

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.52  DOWNSTREAM(FEET) =    191.59
  CHANNEL LENGTH THRU SUBAREA(FEET) =    79.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.916
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.69
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.29
  AVERAGE FLOW DEPTH(FEET) =   0.07   TRAVEL TIME(MIN.) =   1.02
  Tc(MIN.) =    7.23
  SUBAREA AREA(ACRES) =     0.06       SUBAREA RUNOFF(CFS) =    0.20
  EFFECTIVE AREA(ACRES) =      0.22     AREA-AVERAGED Fm(INCH/HR) =   0.17
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
  TOTAL AREA(ACRES) =        0.2         PEAK FLOW RATE(CFS) =       0.74

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.08   FLOW VELOCITY(FEET/SEC.) =   1.19
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     179.00 FEET.

******************************************************************************
```

```
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.23
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.916
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  SUBAREA AREA(ACRES) =    0.06      SUBAREA RUNOFF(CFS) =    0.20
  EFFECTIVE AREA(ACRES) =      0.28   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.59
  TOTAL AREA(ACRES) =        0.3       PEAK FLOW RATE(CFS) =       0.94

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.76  DOWNSTREAM(FEET) =    191.97

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.814
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.049
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  PUBLIC PARK                B        0.04      0.30     0.850    56    6.81
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.850
  SUBAREA RUNOFF(CFS) =      0.14
  TOTAL AREA(ACRES) =      0.04   PEAK FLOW RATE(CFS) =      0.14

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.97  DOWNSTREAM(FEET) =    191.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =   173.00   CHANNEL SLOPE =  0.0042
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.147
  SUBAREA LOSS RATE DATA(AMC  II):
```

```
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.47
TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.76
AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   3.82
Tc(MIN.) =   10.63
SUBAREA AREA(ACRES) =     0.25       SUBAREA RUNOFF(CFS) =    0.67
EFFECTIVE AREA(ACRES) =      0.29     AREA-AVERAGED Fm(INCH/HR) =   0.16
AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       0.78

END OF SUBAREA CHANNEL FLOW HYDRAULICS:
DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   0.84
LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     273.00 FEET.

****************************************************************************
FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
MAINLINE Tc(MIN.) =   10.63
*  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.147
SUBAREA LOSS RATE DATA(AMC  II):
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
SUBAREA AREA(ACRES) =    0.25      SUBAREA RUNOFF(CFS) =    0.67
EFFECTIVE AREA(ACRES) =      0.54   AREA-AVERAGED Fm(INCH/HR) =  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.53
TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       1.45
============================================================================
END OF STUDY SUMMARY:
TOTAL AREA(ACRES)     =        0.5  TC(MIN.) =     10.63
EFFECTIVE AREA(ACRES) =      0.54  AREA-AVERAGED Fm(INCH/HR)=  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.526
PEAK FLOW RATE(CFS)   =       1.45
============================================================================
============================================================================
END OF RATIONAL METHOD ANALYSIS
```

↑

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
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                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALD'S SANTA ANA                                                     *
* PROPOSED 25 YEAR                                                         *
* KIMLEY-HORN & ASSOCIATES                                                 *
 ***************************************************************************

  FILE NAME: MCD25PR.DAT
  TIME/DATE OF STUDY: 11:33 06/29/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =   25.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  0.5 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    194.10  DOWNSTREAM(FEET) =    192.33

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.090
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.775
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  CONDOMINIUMS               B        0.09      0.30     0.350    56    5.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA RUNOFF(CFS) =      0.38
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.38

******************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.33  DOWNSTREAM(FEET) =    192.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =    20.00   CHANNEL SLOPE =  0.0045
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.566
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.43
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.79
  AVERAGE FLOW DEPTH(FEET) =   0.07   TRAVEL TIME(MIN.) =   0.42
  Tc(MIN.) =    5.51
  SUBAREA AREA(ACRES) =     0.03       SUBAREA RUNOFF(CFS) =    0.10
  EFFECTIVE AREA(ACRES) =      0.12     AREA-AVERAGED Fm(INCH/HR) =   0.11
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.35
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.46

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.08   FLOW VELOCITY(FEET/SEC.) =   0.74
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     120.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    5.51
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.566
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA AREA(ACRES) =    0.03      SUBAREA RUNOFF(CFS) =    0.10
  EFFECTIVE AREA(ACRES) =      0.14   AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.35
  TOTAL AREA(ACRES) =        0.1       PEAK FLOW RATE(CFS) =       0.56

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    302.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.46  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   137.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO  8.000
  DEPTH OF FLOW IN   8.0 INCH PIPE IS   3.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.44
  ESTIMATED PIPE DIAMETER(INCH) =   8.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.56
  PIPE TRAVEL TIME(MIN.) =   0.66    Tc(MIN.) =    6.17
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    302.00 =     257.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.17
  RAINFALL INTENSITY(INCH/HR) =   4.28
  AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.35
  EFFECTIVE STREAM AREA(ACRES) =       0.14
  TOTAL STREAM AREA(ACRES) =       0.14
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.56

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
```

```
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.37  DOWNSTREAM(FEET) =    191.94

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.740
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.461
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.08      0.30     0.500    56    5.74
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.31
  TOTAL AREA(ACRES) =      0.08   PEAK FLOW RATE(CFS) =      0.31

****************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.94  DOWNSTREAM(FEET) =    191.63
  CHANNEL LENGTH THRU SUBAREA(FEET) =    35.00   CHANNEL SLOPE =  0.0089
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.207
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.40
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.93
  AVERAGE FLOW DEPTH(FEET) =   0.07   TRAVEL TIME(MIN.) =   0.63
  Tc(MIN.) =    6.37
  SUBAREA AREA(ACRES) =     0.05       SUBAREA RUNOFF(CFS) =    0.18
  EFFECTIVE AREA(ACRES) =      0.13     AREA-AVERAGED Fm(INCH/HR) =   0.15
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.50
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.47

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   0.93
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =     135.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    402.00 IS CODE =  81
```

```
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.37
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.207
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA AREA(ACRES) =    0.05      SUBAREA RUNOFF(CFS) =    0.18
  EFFECTIVE AREA(ACRES) =      0.18   AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.50
  TOTAL AREA(ACRES) =        0.2       PEAK FLOW RATE(CFS) =       0.66

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    302.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.32  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   4.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.46
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.66
  PIPE TRAVEL TIME(MIN.) =   0.64    Tc(MIN.) =    7.01
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.01
  RAINFALL INTENSITY(INCH/HR) =   3.98
  AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.50
  EFFECTIVE STREAM AREA(ACRES) =       0.18
  TOTAL STREAM AREA(ACRES) =       0.18
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.66

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
```

```
 NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1        0.56    6.17    4.281  0.30( 0.11) 0.35       0.1     200.00
    2        0.66    7.01    3.983  0.30( 0.15) 0.50       0.2     400.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1        1.19    6.17    4.281  0.30( 0.13) 0.43       0.3     200.00
    2        1.18    7.01    3.983  0.30( 0.13) 0.43       0.3     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       1.19    Tc(MIN.) =     6.17
  EFFECTIVE AREA(ACRES) =       0.30   AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.43
  TOTAL AREA(ACRES) =        0.3
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   187.98  DOWNSTREAM(FEET) =   187.64
  FLOW LENGTH(FEET) =    33.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   5.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.04
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.19
  PIPE TRAVEL TIME(MIN.) =   0.14    Tc(MIN.) =    6.31
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.31
  RAINFALL INTENSITY(INCH/HR) =   4.23
  AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.43
  EFFECTIVE STREAM AREA(ACRES) =       0.30
  TOTAL STREAM AREA(ACRES) =       0.32
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       1.19
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>>>>USE SPECIFIED Tc VALUE FOR INITIAL SUBAREA<<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    33.00
  USER SPECIFIED Tc(MIN.) =    5.000
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  4.824
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        0.09      0.30     0.100    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.39
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.39

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    304.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    193.00  DOWNSTREAM(FEET) =    191.16
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.940
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.76
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.21
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   2.15
  Tc(MIN.) =    7.15
  SUBAREA AREA(ACRES) =     0.21       SUBAREA RUNOFF(CFS) =    0.73
  EFFECTIVE AREA(ACRES) =      0.30     AREA-AVERAGED Fm(INCH/HR) =   0.05
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.17
  TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       1.05

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.09   FLOW VELOCITY(FEET/SEC.) =   1.34
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     189.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    7.15
  *  25 YEAR RAINFALL INTENSITY(INCH/HR) =  3.940
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    0.73
  EFFECTIVE AREA(ACRES) =      0.51   AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.18
  TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       1.78

******************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.15
  RAINFALL INTENSITY(INCH/HR) =   3.94
  AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.18
  EFFECTIVE STREAM AREA(ACRES) =       0.51
  TOTAL STREAM AREA(ACRES) =       0.51
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       1.78

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        1.19    6.31    4.228  0.30( 0.13) 0.43       0.3     200.00
      1        1.18    7.15    3.940  0.30( 0.13) 0.43       0.3     400.00
      2        1.78    7.15    3.940  0.30( 0.05) 0.18       0.5     300.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        2.88    6.31    4.228  0.30( 0.08) 0.28       0.7     200.00
      2        2.96    7.15    3.940  0.30( 0.08) 0.28       0.8     300.00
      3        2.96    7.15    3.940  0.30( 0.08) 0.28       0.8     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       2.96    Tc(MIN.) =     7.15
```

```
  EFFECTIVE AREA(ACRES) =       0.83   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.28
  TOTAL AREA(ACRES) =        0.8
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.8  TC(MIN.) =      7.15
  EFFECTIVE AREA(ACRES) =      0.83  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.280
  PEAK FLOW RATE(CFS)   =       2.96

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        2.88    6.31    4.228  0.30( 0.08) 0.28       0.7     200.00
      2        2.96    7.15    3.940  0.30( 0.08) 0.28       0.8     300.00
      3        2.96    7.15    3.940  0.30( 0.08) 0.28       0.8     400.00
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

↑

# APPENDIX E: 100-YEAR STORM ANALYSIS FOR EXISTING CONDITIONS AND PROPOSED CONDITIONS

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
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                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALDS SANTA ANA                                                      *
* 100-YEAR EXISTING                                                        *
* KIMLEY-HORN                                                              *
 ***************************************************************************

  FILE NAME: MCD100E.DAT
  TIME/DATE OF STUDY: 13:51 06/27/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.49  DOWNSTREAM(FEET) =    192.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.203
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.468
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.16      0.30     0.500    56    6.20
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.77
  TOTAL AREA(ACRES) =      0.16   PEAK FLOW RATE(CFS) =      0.77

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.52  DOWNSTREAM(FEET) =    191.59
  CHANNEL LENGTH THRU SUBAREA(FEET) =    79.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.033
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.90
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.36
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   0.97
  Tc(MIN.) =    7.17
  SUBAREA AREA(ACRES) =     0.06       SUBAREA RUNOFF(CFS) =    0.26
  EFFECTIVE AREA(ACRES) =      0.22     AREA-AVERAGED Fm(INCH/HR) =   0.17
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
  TOTAL AREA(ACRES) =        0.2         PEAK FLOW RATE(CFS) =       0.96

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.09   FLOW VELOCITY(FEET/SEC.) =   1.28
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     179.00 FEET.

******************************************************************************
```

```
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.17
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.033
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  SUBAREA AREA(ACRES) =    0.06      SUBAREA RUNOFF(CFS) =    0.26
  EFFECTIVE AREA(ACRES) =      0.28   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.59
  TOTAL AREA(ACRES) =        0.3       PEAK FLOW RATE(CFS) =       1.22

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.76  DOWNSTREAM(FEET) =    191.97

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.814
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.182
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  PUBLIC PARK                B        0.04      0.30     0.850    56    6.81
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.850
  SUBAREA RUNOFF(CFS) =      0.18
  TOTAL AREA(ACRES) =      0.04   PEAK FLOW RATE(CFS) =      0.18

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.97  DOWNSTREAM(FEET) =    191.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =   173.00   CHANNEL SLOPE =  0.0042
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.051
  SUBAREA LOSS RATE DATA(AMC  II):
```

```
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.62
TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.79
AVERAGE FLOW DEPTH(FEET) =   0.09   TRAVEL TIME(MIN.) =   3.66
Tc(MIN.) =   10.47
SUBAREA AREA(ACRES) =     0.25       SUBAREA RUNOFF(CFS) =    0.88
EFFECTIVE AREA(ACRES) =      0.29     AREA-AVERAGED Fm(INCH/HR) =   0.16
AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       1.01

END OF SUBAREA CHANNEL FLOW HYDRAULICS:
DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   0.94
LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     273.00 FEET.

****************************************************************************
FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
MAINLINE Tc(MIN.) =   10.47
* 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.051
SUBAREA LOSS RATE DATA(AMC  II):
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
SUBAREA AREA(ACRES) =    0.25      SUBAREA RUNOFF(CFS) =    0.88
EFFECTIVE AREA(ACRES) =      0.54   AREA-AVERAGED Fm(INCH/HR) =  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.53
TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       1.89
============================================================================
END OF STUDY SUMMARY:
TOTAL AREA(ACRES)     =        0.5  TC(MIN.) =     10.47
EFFECTIVE AREA(ACRES) =      0.54  AREA-AVERAGED Fm(INCH/HR)=  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.526
PEAK FLOW RATE(CFS)   =       1.89
============================================================================
============================================================================
END OF RATIONAL METHOD ANALYSIS
```

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****************************************************************************
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                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALD'S SANTA ANA                                                     *
* PROPOSED 100 YEAR                                                        *
* KIMLEY-HORN & ASSOCIATES                                                 *
 ***************************************************************************

  FILE NAME: MCD100PR.DAT
  TIME/DATE OF STUDY: 11:42 06/29/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  0.5 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    194.10  DOWNSTREAM(FEET) =    192.33

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.090
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.124
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  CONDOMINIUMS               B        0.09      0.30     0.350    76    5.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA RUNOFF(CFS) =      0.49
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.49

******************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.33  DOWNSTREAM(FEET) =    192.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =    20.00   CHANNEL SLOPE =  0.0045
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.867
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.55
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.84
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   0.40
  Tc(MIN.) =    5.49
  SUBAREA AREA(ACRES) =     0.03       SUBAREA RUNOFF(CFS) =    0.13
  EFFECTIVE AREA(ACRES) =      0.12     AREA-AVERAGED Fm(INCH/HR) =   0.11
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.35
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.60

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.09   FLOW VELOCITY(FEET/SEC.) =   0.79
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     120.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    5.49
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.867
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA AREA(ACRES) =    0.03      SUBAREA RUNOFF(CFS) =    0.13
  EFFECTIVE AREA(ACRES) =      0.14   AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.35
  TOTAL AREA(ACRES) =        0.1       PEAK FLOW RATE(CFS) =       0.73

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    302.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.46  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   137.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   4.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.66
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.73
  PIPE TRAVEL TIME(MIN.) =   0.62    Tc(MIN.) =    6.11
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    302.00 =     257.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.11
  RAINFALL INTENSITY(INCH/HR) =   5.52
  AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.35
  EFFECTIVE STREAM AREA(ACRES) =       0.14
  TOTAL STREAM AREA(ACRES) =       0.14
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.73

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
```

```
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.37  DOWNSTREAM(FEET) =    191.94

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.740
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.717
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.08      0.30     0.500    76    5.74
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.40
  TOTAL AREA(ACRES) =      0.08   PEAK FLOW RATE(CFS) =      0.40

******************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.94  DOWNSTREAM(FEET) =    191.63
  CHANNEL LENGTH THRU SUBAREA(FEET) =    35.00   CHANNEL SLOPE =  0.0089
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.413
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.52
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.02
  AVERAGE FLOW DEPTH(FEET) =   0.07   TRAVEL TIME(MIN.) =   0.57
  Tc(MIN.) =    6.31
  SUBAREA AREA(ACRES) =     0.05       SUBAREA RUNOFF(CFS) =    0.24
  EFFECTIVE AREA(ACRES) =      0.13     AREA-AVERAGED Fm(INCH/HR) =   0.15
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.50
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.62

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.08   FLOW VELOCITY(FEET/SEC.) =   0.98
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =     135.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    402.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    6.31
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.413
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA AREA(ACRES) =    0.05      SUBAREA RUNOFF(CFS) =    0.24
  EFFECTIVE AREA(ACRES) =      0.18   AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.50
  TOTAL AREA(ACRES) =        0.2       PEAK FLOW RATE(CFS) =       0.85

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    302.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.32  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   4.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.72
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.85
  PIPE TRAVEL TIME(MIN.) =   0.60    Tc(MIN.) =    6.92
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.92
  RAINFALL INTENSITY(INCH/HR) =   5.14
  AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.50
  EFFECTIVE STREAM AREA(ACRES) =       0.18
  TOTAL STREAM AREA(ACRES) =       0.18
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.85

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
```

```
     1        0.73    6.11    5.516  0.30( 0.11) 0.35       0.1     200.00
     2        0.85    6.92    5.138  0.30( 0.15) 0.50       0.2     400.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1        1.54    6.11    5.516  0.30( 0.13) 0.43       0.3     200.00
     2        1.53    6.92    5.138  0.30( 0.13) 0.43       0.3     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       1.54    Tc(MIN.) =     6.11
  EFFECTIVE AREA(ACRES) =       0.30   AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.43
  TOTAL AREA(ACRES) =        0.3
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   187.98  DOWNSTREAM(FEET) =   187.64
  FLOW LENGTH(FEET) =    33.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   6.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.21
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.54
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    6.24
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.24
  RAINFALL INTENSITY(INCH/HR) =   5.45
  AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.43
  EFFECTIVE STREAM AREA(ACRES) =       0.30
  TOTAL STREAM AREA(ACRES) =       0.32
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       1.54

****************************************************************************
```

```
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>>>>USE SPECIFIED Tc VALUE FOR INITIAL SUBAREA<<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    33.00
  USER SPECIFIED Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.187
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        0.09      0.30     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.50
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.50

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    304.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    193.00  DOWNSTREAM(FEET) =    191.16
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.103
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.98
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.30
  AVERAGE FLOW DEPTH(FEET) =   0.09   TRAVEL TIME(MIN.) =   2.00
  Tc(MIN.) =    7.00
  SUBAREA AREA(ACRES) =     0.21       SUBAREA RUNOFF(CFS) =    0.95
  EFFECTIVE AREA(ACRES) =      0.30     AREA-AVERAGED Fm(INCH/HR) =   0.05
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.17
  TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       1.36

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   1.47
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     189.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
==============================================================================
  MAINLINE Tc(MIN.) =    7.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.103
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    0.95
  EFFECTIVE AREA(ACRES) =      0.51   AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.18
  TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       2.32

******************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.00
  RAINFALL INTENSITY(INCH/HR) =   5.10
  AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.18
  EFFECTIVE STREAM AREA(ACRES) =       0.51
  TOTAL STREAM AREA(ACRES) =       0.51
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       2.32

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        1.54    6.24    5.449  0.30( 0.13) 0.43       0.3     200.00
      1        1.53    7.05    5.083  0.30( 0.13) 0.43       0.3     400.00
      2        2.32    7.00    5.103  0.30( 0.05) 0.18       0.5     300.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        3.74    6.24    5.449  0.30( 0.08) 0.28       0.8     200.00
      2        3.85    7.00    5.103  0.30( 0.08) 0.28       0.8     300.00
      3        3.84    7.05    5.083  0.30( 0.08) 0.28       0.8     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       3.85    Tc(MIN.) =     7.00
  EFFECTIVE AREA(ACRES) =       0.83   AREA-AVERAGED Fm(INCH/HR) =  0.08
```

```
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.28
  TOTAL AREA(ACRES) =        0.8
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.8  TC(MIN.) =      7.00
  EFFECTIVE AREA(ACRES) =      0.83  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.279
  PEAK FLOW RATE(CFS)   =       3.85

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        3.74    6.24    5.449  0.30( 0.08) 0.28       0.8     200.00
      2        3.85    7.00    5.103  0.30( 0.08) 0.28       0.8     300.00
      3        3.84    7.05    5.083  0.30( 0.08) 0.28       0.8     400.00
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

↑

# APPENDIX F: 2-YEAR 24-HOUR

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
         (c) Copyright 1983-2011 Advanced Engineering Software (aes)
             Ver. 18.0  Release Date: 07/01/2011  License ID 1499

                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALDS SANTA ANA                                                      *
* 2-YEAR EXISTING                                                          *
* KIMLEY-HORN                                                              *
 ***************************************************************************

  FILE NAME: MCD2E.DAT
  TIME/DATE OF STUDY: 11:50 06/29/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =    2.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) I ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.49  DOWNSTREAM(FEET) =    192.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.203
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.000
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.16      0.30     0.500    36    6.20
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.27
  TOTAL AREA(ACRES) =      0.16   PEAK FLOW RATE(CFS) =      0.27

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.52  DOWNSTREAM(FEET) =    191.59
  CHANNEL LENGTH THRU SUBAREA(FEET) =    79.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.787
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.31
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.98
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   1.35
  Tc(MIN.) =    7.55
  SUBAREA AREA(ACRES) =     0.06       SUBAREA RUNOFF(CFS) =    0.09
  EFFECTIVE AREA(ACRES) =      0.22     AREA-AVERAGED Fm(INCH/HR) =   0.17
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
  TOTAL AREA(ACRES) =        0.2         PEAK FLOW RATE(CFS) =       0.32

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.06   FLOW VELOCITY(FEET/SEC.) =   1.01
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     179.00 FEET.

******************************************************************************
```

```
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.55
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.787
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  SUBAREA AREA(ACRES) =    0.06      SUBAREA RUNOFF(CFS) =    0.09
  EFFECTIVE AREA(ACRES) =      0.28   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.59
  TOTAL AREA(ACRES) =        0.3       PEAK FLOW RATE(CFS) =       0.41

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.76  DOWNSTREAM(FEET) =    191.97

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.814
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.895
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  PUBLIC PARK                B        0.04      0.30     0.850    36    6.81
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.850
  SUBAREA RUNOFF(CFS) =      0.06
  TOTAL AREA(ACRES) =      0.04   PEAK FLOW RATE(CFS) =      0.06

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
----------------------------------------------------------------------------
  ** WARNING: Computed Flowrate is less than 0.1 cfs,
               Routing Algorithm is UNAVAILABLE.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.81
```

```
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.895
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA AREA(ACRES) =    0.25      SUBAREA RUNOFF(CFS) =    0.39
  EFFECTIVE AREA(ACRES) =      0.29   AREA-AVERAGED Fm(INCH/HR) =  0.16
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.55
  TOTAL AREA(ACRES) =        0.3       PEAK FLOW RATE(CFS) =       0.45
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.3  TC(MIN.) =      6.81
  EFFECTIVE AREA(ACRES) =      0.29  AREA-AVERAGED Fm(INCH/HR)=  0.16
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.548
  PEAK FLOW RATE(CFS)   =       0.45
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

↑

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
         (c) Copyright 1983-2011 Advanced Engineering Software (aes)
             Ver. 18.0  Release Date: 07/01/2011  License ID 1499

                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALD'S SANTA ANA                                                     *
* PROPOSED 2 YEAR                                                          *
* KIMLEY-HORN & ASSOCIATES                                                 *
 ***************************************************************************

  FILE NAME: MCD2PR.DAT
  TIME/DATE OF STUDY: 11:38 06/29/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =    2.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) I ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  0.5 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    194.10  DOWNSTREAM(FEET) =    192.33

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.090
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.241
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  CONDOMINIUMS               B        0.09      0.30     0.350    36    5.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA RUNOFF(CFS) =      0.17
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.17

******************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.33  DOWNSTREAM(FEET) =    192.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =    20.00   CHANNEL SLOPE =  0.0045
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.115
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.20
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.62
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   0.54
  Tc(MIN.) =    5.63
  SUBAREA AREA(ACRES) =     0.03       SUBAREA RUNOFF(CFS) =    0.05
  EFFECTIVE AREA(ACRES) =      0.12     AREA-AVERAGED Fm(INCH/HR) =   0.11
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.35
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.21

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.06   FLOW VELOCITY(FEET/SEC.) =   0.61
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     120.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    5.63
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.115
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA AREA(ACRES) =    0.03      SUBAREA RUNOFF(CFS) =    0.05
  EFFECTIVE AREA(ACRES) =      0.14   AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.35
  TOTAL AREA(ACRES) =        0.1       PEAK FLOW RATE(CFS) =       0.25

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    302.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.46  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   137.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO  8.000
  DEPTH OF FLOW IN   8.0 INCH PIPE IS   2.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   2.77
  ESTIMATED PIPE DIAMETER(INCH) =   8.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.25
  PIPE TRAVEL TIME(MIN.) =   0.82    Tc(MIN.) =    6.45
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    302.00 =     257.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.45
  RAINFALL INTENSITY(INCH/HR) =   1.96
  AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.35
  EFFECTIVE STREAM AREA(ACRES) =       0.14
  TOTAL STREAM AREA(ACRES) =       0.14
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.25

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
```

```
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.37  DOWNSTREAM(FEET) =    191.94

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.740
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.091
  SUBAREA Tc AND LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.08      0.30     0.500    36    5.74
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.14
  TOTAL AREA(ACRES) =      0.08   PEAK FLOW RATE(CFS) =      0.14

******************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.94  DOWNSTREAM(FEET) =    191.63
  CHANNEL LENGTH THRU SUBAREA(FEET) =    35.00   CHANNEL SLOPE =  0.0089
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.946
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.18
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.76
  AVERAGE FLOW DEPTH(FEET) =   0.05   TRAVEL TIME(MIN.) =   0.77
  Tc(MIN.) =    6.51
  SUBAREA AREA(ACRES) =     0.05       SUBAREA RUNOFF(CFS) =    0.08
  EFFECTIVE AREA(ACRES) =      0.13     AREA-AVERAGED Fm(INCH/HR) =   0.15
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.50
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.21

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.05   FLOW VELOCITY(FEET/SEC.) =   0.82
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =     135.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    402.00 IS CODE =  81
```

```
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    6.51
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.946
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA AREA(ACRES) =    0.05      SUBAREA RUNOFF(CFS) =    0.08
  EFFECTIVE AREA(ACRES) =      0.18   AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.50
  TOTAL AREA(ACRES) =        0.2       PEAK FLOW RATE(CFS) =       0.29

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    302.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.32  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO  8.000
  DEPTH OF FLOW IN   8.0 INCH PIPE IS   2.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   2.82
  ESTIMATED PIPE DIAMETER(INCH) =   8.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.29
  PIPE TRAVEL TIME(MIN.) =   0.79    Tc(MIN.) =    7.30
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.30
  RAINFALL INTENSITY(INCH/HR) =   1.82
  AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.50
  EFFECTIVE STREAM AREA(ACRES) =       0.18
  TOTAL STREAM AREA(ACRES) =       0.18
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.29

  ** CONFLUENCE DATA **
```

```
 STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
 NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1        0.25    6.45    1.955  0.30( 0.11) 0.35       0.1     200.00
    2        0.29    7.30    1.822  0.30( 0.15) 0.50       0.2     400.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
 STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
 NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
    1        0.53    6.45    1.955  0.30( 0.13) 0.43       0.3     200.00
    2        0.53    7.30    1.822  0.30( 0.13) 0.43       0.3     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       0.53    Tc(MIN.) =     6.45
  EFFECTIVE AREA(ACRES) =       0.30   AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.43
  TOTAL AREA(ACRES) =        0.3
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   187.98  DOWNSTREAM(FEET) =   187.64
  FLOW LENGTH(FEET) =    33.00   MANNING'S N =  0.013
  ESTIMATED PIPE DIAMETER(INCH) INCREASED TO  8.000
  DEPTH OF FLOW IN   8.0 INCH PIPE IS   3.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.33
  ESTIMATED PIPE DIAMETER(INCH) =   8.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.53
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =    6.62
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.62
  RAINFALL INTENSITY(INCH/HR) =   1.93
  AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.43
  EFFECTIVE STREAM AREA(ACRES) =       0.30
  TOTAL STREAM AREA(ACRES) =       0.32
```

```
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.53

****************************************************************************
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>>>>USE SPECIFIED Tc VALUE FOR INITIAL SUBAREA<<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    33.00
  USER SPECIFIED Tc(MIN.) =    5.000
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  2.264
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        0.09      0.30     0.100    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.18
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.18

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    304.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    193.00  DOWNSTREAM(FEET) =    191.16
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.784
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.34
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.01
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   2.57
  Tc(MIN.) =    7.57
  SUBAREA AREA(ACRES) =     0.21       SUBAREA RUNOFF(CFS) =    0.33
  EFFECTIVE AREA(ACRES) =      0.30     AREA-AVERAGED Fm(INCH/HR) =   0.05
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.17
  TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       0.47

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.08
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     189.00 FEET.

****************************************************************************
```

```
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.57
  *   2 YEAR RAINFALL INTENSITY(INCH/HR) =  1.784
  SUBAREA LOSS RATE DATA(AMC  I ):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    36
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    0.33
  EFFECTIVE AREA(ACRES) =      0.51   AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.18
  TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       0.79

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.57
  RAINFALL INTENSITY(INCH/HR) =   1.78
  AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.18
  EFFECTIVE STREAM AREA(ACRES) =       0.51
  TOTAL STREAM AREA(ACRES) =       0.51
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.79

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        0.53    6.62    1.927  0.30( 0.13) 0.43       0.3     200.00
      1        0.53    7.46    1.798  0.30( 0.13) 0.43       0.3     400.00
      2        0.79    7.57    1.784  0.30( 0.05) 0.18       0.5     300.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        1.28    6.62    1.927  0.30( 0.08) 0.28       0.7     200.00
      2        1.32    7.46    1.798  0.30( 0.08) 0.28       0.8     400.00
      3        1.32    7.57    1.784  0.30( 0.08) 0.28       0.8     300.00
```

```
  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       1.32    Tc(MIN.) =     7.46
  EFFECTIVE AREA(ACRES) =       0.82   AREA-AVERAGED Fm(INCH/HR) =  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.28
  TOTAL AREA(ACRES) =        0.8
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.8  TC(MIN.) =      7.46
  EFFECTIVE AREA(ACRES) =      0.82  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.280
  PEAK FLOW RATE(CFS)   =       1.32

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        1.28    6.62    1.927  0.30( 0.08) 0.28       0.7     200.00
      2        1.32    7.46    1.798  0.30( 0.08) 0.28       0.8     400.00
      3        1.32    7.57    1.784  0.30( 0.08) 0.28       0.8     300.00
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

↑

# APPENDIX G: DETENTION ROUTING CALUCULATIONS (100 YR)

```
****************************************************************************
             RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM PACKAGE
            (Reference: 1986 ORANGE COUNTY HYDROLOGY CRITERION)
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                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALDS SANTA ANA                                                      *
* 100-YEAR EXISTING                                                        *
* KIMLEY-HORN                                                              *
 ***************************************************************************

  FILE NAME: MCD100E.DAT
  TIME/DATE OF STUDY: 13:51 06/27/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) II ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.49  DOWNSTREAM(FEET) =    192.52

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.203
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.468
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.16      0.30     0.500    56    6.20
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.77
  TOTAL AREA(ACRES) =      0.16   PEAK FLOW RATE(CFS) =      0.77

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.52  DOWNSTREAM(FEET) =    191.59
  CHANNEL LENGTH THRU SUBAREA(FEET) =    79.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.033
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.90
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.36
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   0.97
  Tc(MIN.) =    7.17
  SUBAREA AREA(ACRES) =     0.06       SUBAREA RUNOFF(CFS) =    0.26
  EFFECTIVE AREA(ACRES) =      0.22     AREA-AVERAGED Fm(INCH/HR) =   0.17
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
  TOTAL AREA(ACRES) =        0.2         PEAK FLOW RATE(CFS) =       0.96

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.09   FLOW VELOCITY(FEET/SEC.) =   1.28
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     179.00 FEET.

******************************************************************************
```

```
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
  MAINLINE Tc(MIN.) =    7.17
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.033
  SUBAREA LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "2 DWELLINGS/ACRE"         B        0.06      0.30     0.700    56
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.700
  SUBAREA AREA(ACRES) =    0.06      SUBAREA RUNOFF(CFS) =    0.26
  EFFECTIVE AREA(ACRES) =      0.28   AREA-AVERAGED Fm(INCH/HR) =  0.18
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.59
  TOTAL AREA(ACRES) =        0.3       PEAK FLOW RATE(CFS) =       1.22

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.76  DOWNSTREAM(FEET) =    191.97

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    6.814
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.182
  SUBAREA Tc AND LOSS RATE DATA(AMC  II):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  PUBLIC PARK                B        0.04      0.30     0.850    56    6.81
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.850
  SUBAREA RUNOFF(CFS) =      0.18
  TOTAL AREA(ACRES) =      0.04   PEAK FLOW RATE(CFS) =      0.18

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.97  DOWNSTREAM(FEET) =    191.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =   173.00   CHANNEL SLOPE =  0.0042
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.051
  SUBAREA LOSS RATE DATA(AMC  II):
```

```
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.62
TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.79
AVERAGE FLOW DEPTH(FEET) =   0.09   TRAVEL TIME(MIN.) =   3.66
Tc(MIN.) =   10.47
SUBAREA AREA(ACRES) =     0.25       SUBAREA RUNOFF(CFS) =    0.88
EFFECTIVE AREA(ACRES) =      0.29     AREA-AVERAGED Fm(INCH/HR) =   0.16
AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.55
TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       1.01

END OF SUBAREA CHANNEL FLOW HYDRAULICS:
DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   0.94
LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     273.00 FEET.

****************************************************************************
FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
>>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
MAINLINE Tc(MIN.) =   10.47
* 100 YEAR RAINFALL INTENSITY(INCH/HR) =  4.051
SUBAREA LOSS RATE DATA(AMC  II):
 DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
     LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
RESIDENTIAL
"5-7 DWELLINGS/ACRE"       B        0.25      0.30     0.500    56
SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
SUBAREA AREA(ACRES) =    0.25      SUBAREA RUNOFF(CFS) =    0.88
EFFECTIVE AREA(ACRES) =      0.54   AREA-AVERAGED Fm(INCH/HR) =  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.53
TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       1.89
============================================================================
END OF STUDY SUMMARY:
TOTAL AREA(ACRES)     =        0.5  TC(MIN.) =     10.47
EFFECTIVE AREA(ACRES) =      0.54  AREA-AVERAGED Fm(INCH/HR)=  0.16
AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.526
PEAK FLOW RATE(CFS)   =       1.89
============================================================================
============================================================================
END OF RATIONAL METHOD ANALYSIS
```

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****************************************************************************
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                          Analysis prepared by:




 ************************** DESCRIPTION OF STUDY **************************
* MCDONALD'S SANTA ANA                                                     *
* PROPOSED 100 YEAR                                                        *
* KIMLEY-HORN & ASSOCIATES                                                 *
 ***************************************************************************

  FILE NAME: MCD100PR.DAT
  TIME/DATE OF STUDY: 11:42 06/29/2023
============================================================================
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
============================================================================
                    --*TIME-OF-CONCENTRATION MODEL*--

  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =   8.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  *DATA BANK RAINFALL USED*
  *ANTECEDENT MOISTURE CONDITION (AMC) III ASSUMED FOR RATIONAL METHOD*

  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  0.5 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*
  *USER-SPECIFIED MINIMUM TOPOGRAPHIC SLOPE ADJUSTMENT NOT SELECTED

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
```

```
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    194.10  DOWNSTREAM(FEET) =    192.33

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.090
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.124
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  CONDOMINIUMS               B        0.09      0.30     0.350    76    5.09
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA RUNOFF(CFS) =      0.49
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.49

******************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    192.33  DOWNSTREAM(FEET) =    192.24
  CHANNEL LENGTH THRU SUBAREA(FEET) =    20.00   CHANNEL SLOPE =  0.0045
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.867
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.55
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   0.84
  AVERAGE FLOW DEPTH(FEET) =   0.08   TRAVEL TIME(MIN.) =   0.40
  Tc(MIN.) =    5.49
  SUBAREA AREA(ACRES) =     0.03       SUBAREA RUNOFF(CFS) =    0.13
  EFFECTIVE AREA(ACRES) =      0.12     AREA-AVERAGED Fm(INCH/HR) =   0.11
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.35
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.60

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.09   FLOW VELOCITY(FEET/SEC.) =   0.79
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     120.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    5.49
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.867
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  CONDOMINIUMS               B        0.03      0.30     0.350    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.350
  SUBAREA AREA(ACRES) =    0.03      SUBAREA RUNOFF(CFS) =    0.13
  EFFECTIVE AREA(ACRES) =      0.14   AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.35
  TOTAL AREA(ACRES) =        0.1       PEAK FLOW RATE(CFS) =       0.73

******************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    302.00 IS CODE =  31
------------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.46  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   137.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   4.1 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.66
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.73
  PIPE TRAVEL TIME(MIN.) =   0.62    Tc(MIN.) =    6.11
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    302.00 =     257.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.11
  RAINFALL INTENSITY(INCH/HR) =   5.52
  AREA-AVERAGED Fm(INCH/HR) =  0.11
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.35
  EFFECTIVE STREAM AREA(ACRES) =       0.14
  TOTAL STREAM AREA(ACRES) =       0.14
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.73

******************************************************************************
  FLOW PROCESS FROM NODE    400.00 TO NODE    401.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>USE TIME-OF-CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA<<
```

```
==============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   100.00
  ELEVATION DATA: UPSTREAM(FEET) =    193.37  DOWNSTREAM(FEET) =    191.94

  Tc = K*[(LENGTH** 3.00)/(ELEVATION CHANGE)]**0.20
  SUBAREA ANALYSIS USED MINIMUM Tc(MIN.) =    5.740
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.717
  SUBAREA Tc AND LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS   Tc
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN  (MIN.)
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.08      0.30     0.500    76    5.74
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA RUNOFF(CFS) =      0.40
  TOTAL AREA(ACRES) =      0.08   PEAK FLOW RATE(CFS) =      0.40

******************************************************************************
  FLOW PROCESS FROM NODE    401.00 TO NODE    402.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    191.94  DOWNSTREAM(FEET) =    191.63
  CHANNEL LENGTH THRU SUBAREA(FEET) =    35.00   CHANNEL SLOPE =  0.0089
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.413
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.52
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.02
  AVERAGE FLOW DEPTH(FEET) =   0.07   TRAVEL TIME(MIN.) =   0.57
  Tc(MIN.) =    6.31
  SUBAREA AREA(ACRES) =     0.05       SUBAREA RUNOFF(CFS) =    0.24
  EFFECTIVE AREA(ACRES) =      0.13     AREA-AVERAGED Fm(INCH/HR) =   0.15
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.50
  TOTAL AREA(ACRES) =        0.1         PEAK FLOW RATE(CFS) =       0.62

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.08   FLOW VELOCITY(FEET/SEC.) =   0.98
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    402.00 =     135.00 FEET.

******************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    402.00 IS CODE =  81
------------------------------------------------------------------------------
```

```
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
==============================================================================
  MAINLINE Tc(MIN.) =    6.31
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.413
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  RESIDENTIAL
  "5-7 DWELLINGS/ACRE"       B        0.05      0.30     0.500    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.500
  SUBAREA AREA(ACRES) =    0.05      SUBAREA RUNOFF(CFS) =    0.24
  EFFECTIVE AREA(ACRES) =      0.18   AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.50
  TOTAL AREA(ACRES) =        0.2       PEAK FLOW RATE(CFS) =       0.85

****************************************************************************
  FLOW PROCESS FROM NODE    402.00 TO NODE    302.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   189.32  DOWNSTREAM(FEET) =   187.98
  FLOW LENGTH(FEET) =   134.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   4.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.72
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       0.85
  PIPE TRAVEL TIME(MIN.) =   0.60    Tc(MIN.) =    6.92
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    302.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.92
  RAINFALL INTENSITY(INCH/HR) =   5.14
  AREA-AVERAGED Fm(INCH/HR) =  0.15
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.50
  EFFECTIVE STREAM AREA(ACRES) =       0.18
  TOTAL STREAM AREA(ACRES) =       0.18
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       0.85

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
```

```
     1        0.73    6.11    5.516  0.30( 0.11) 0.35       0.1     200.00
     2        0.85    6.92    5.138  0.30( 0.15) 0.50       0.2     400.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
     1        1.54    6.11    5.516  0.30( 0.13) 0.43       0.3     200.00
     2        1.53    6.92    5.138  0.30( 0.13) 0.43       0.3     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       1.54    Tc(MIN.) =     6.11
  EFFECTIVE AREA(ACRES) =       0.30   AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.43
  TOTAL AREA(ACRES) =        0.3
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    302.00 =     269.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    302.00 TO NODE    304.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   187.98  DOWNSTREAM(FEET) =   187.64
  FLOW LENGTH(FEET) =    33.00   MANNING'S N =  0.013
  DEPTH OF FLOW IN   9.0 INCH PIPE IS   6.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.21
  ESTIMATED PIPE DIAMETER(INCH) =   9.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       1.54
  PIPE TRAVEL TIME(MIN.) =   0.13    Tc(MIN.) =    6.24
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
----------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  1 ARE:
  TIME OF CONCENTRATION(MIN.) =    6.24
  RAINFALL INTENSITY(INCH/HR) =   5.45
  AREA-AVERAGED Fm(INCH/HR) =  0.13
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.43
  EFFECTIVE STREAM AREA(ACRES) =       0.30
  TOTAL STREAM AREA(ACRES) =       0.32
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       1.54

****************************************************************************
```

```
  FLOW PROCESS FROM NODE    300.00 TO NODE    301.00 IS CODE =  22
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
  >>>>>USE SPECIFIED Tc VALUE FOR INITIAL SUBAREA<<<
============================================================================
  INITIAL SUBAREA FLOW-LENGTH(FEET) =    33.00
  USER SPECIFIED Tc(MIN.) =    5.000
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  6.187
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  COMMERCIAL                 B        0.09      0.30     0.100    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.100
  SUBAREA RUNOFF(CFS) =      0.50
  TOTAL AREA(ACRES) =      0.09   PEAK FLOW RATE(CFS) =      0.50

****************************************************************************
  FLOW PROCESS FROM NODE    301.00 TO NODE    304.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =    193.00  DOWNSTREAM(FEET) =    191.16
  CHANNEL LENGTH THRU SUBAREA(FEET) =   156.00   CHANNEL SLOPE =  0.0118
  CHANNEL BASE(FEET) =    0.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.015   MAXIMUM DEPTH(FEET) =   1.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.103
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       0.98
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.30
  AVERAGE FLOW DEPTH(FEET) =   0.09   TRAVEL TIME(MIN.) =   2.00
  Tc(MIN.) =    7.00
  SUBAREA AREA(ACRES) =     0.21       SUBAREA RUNOFF(CFS) =    0.95
  EFFECTIVE AREA(ACRES) =      0.30     AREA-AVERAGED Fm(INCH/HR) =   0.05
  AREA-AVERAGED Fp(INCH/HR) =   0.30  AREA-AVERAGED Ap =   0.17
  TOTAL AREA(ACRES) =        0.3         PEAK FLOW RATE(CFS) =       1.36

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.10   FLOW VELOCITY(FEET/SEC.) =   1.47
  LONGEST FLOWPATH FROM NODE    300.00 TO NODE    304.00 =     189.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
```

```
==============================================================================
  MAINLINE Tc(MIN.) =    7.00
  * 100 YEAR RAINFALL INTENSITY(INCH/HR) =  5.103
  SUBAREA LOSS RATE DATA(AMC III):
   DEVELOPMENT TYPE/      SCS SOIL   AREA      Fp         Ap     SCS
       LAND USE            GROUP   (ACRES)  (INCH/HR)  (DECIMAL)  CN
  APARTMENTS                 B        0.21      0.30     0.200    76
  SUBAREA AVERAGE PERVIOUS LOSS RATE, Fp(INCH/HR) =  0.30
  SUBAREA AVERAGE PERVIOUS AREA FRACTION, Ap =  0.200
  SUBAREA AREA(ACRES) =    0.21      SUBAREA RUNOFF(CFS) =    0.95
  EFFECTIVE AREA(ACRES) =      0.51   AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.18
  TOTAL AREA(ACRES) =        0.5       PEAK FLOW RATE(CFS) =       2.32

******************************************************************************
  FLOW PROCESS FROM NODE    304.00 TO NODE    304.00 IS CODE =   1
------------------------------------------------------------------------------
  >>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<
  >>>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<
==============================================================================
  TOTAL NUMBER OF STREAMS =  2
  CONFLUENCE VALUES USED FOR INDEPENDENT STREAM  2 ARE:
  TIME OF CONCENTRATION(MIN.) =    7.00
  RAINFALL INTENSITY(INCH/HR) =   5.10
  AREA-AVERAGED Fm(INCH/HR) =  0.05
  AREA-AVERAGED Fp(INCH/HR) =  0.30
  AREA-AVERAGED Ap =  0.18
  EFFECTIVE STREAM AREA(ACRES) =       0.51
  TOTAL STREAM AREA(ACRES) =       0.51
  PEAK FLOW RATE(CFS) AT CONFLUENCE =       2.32

  ** CONFLUENCE DATA **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        1.54    6.24    5.449  0.30( 0.13) 0.43       0.3     200.00
      1        1.53    7.05    5.083  0.30( 0.13) 0.43       0.3     400.00
      2        2.32    7.00    5.103  0.30( 0.05) 0.18       0.5     300.00

  RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO
  CONFLUENCE FORMULA USED FOR  2 STREAMS.

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        3.74    6.24    5.449  0.30( 0.08) 0.28       0.8     200.00
      2        3.85    7.00    5.103  0.30( 0.08) 0.28       0.8     300.00
      3        3.84    7.05    5.083  0.30( 0.08) 0.28       0.8     400.00

  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =       3.85    Tc(MIN.) =     7.00
  EFFECTIVE AREA(ACRES) =       0.83   AREA-AVERAGED Fm(INCH/HR) =  0.08
```

```
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap =  0.28
  TOTAL AREA(ACRES) =        0.8
  LONGEST FLOWPATH FROM NODE    400.00 TO NODE    304.00 =     302.00 FEET.
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.8  TC(MIN.) =      7.00
  EFFECTIVE AREA(ACRES) =      0.83  AREA-AVERAGED Fm(INCH/HR)=  0.08
  AREA-AVERAGED Fp(INCH/HR) =  0.30  AREA-AVERAGED Ap = 0.279
  PEAK FLOW RATE(CFS)   =       3.85

  ** PEAK FLOW RATE TABLE **
   STREAM       Q      Tc   Intensity   Fp(Fm)     Ap     Ae     HEADWATER
   NUMBER     (CFS)  (MIN.) (INCH/HR) (INCH/HR)         (ACRES)    NODE
      1        3.74    6.24    5.449  0.30( 0.08) 0.28       0.8     200.00
      2        3.85    7.00    5.103  0.30( 0.08) 0.28       0.8     300.00
      3        3.84    7.05    5.083  0.30( 0.08) 0.28       0.8     400.00
==============================================================================
==============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

↑

# APPENDIX I: STORMWATER DESIGN SPECIFICATION SHEETS

| PROJECT INFORMATION | |
|---|---|
| ENGINEERED PRODUCT MANAGER: | TRAVIS ANTONISSEN<br>949-237-8866<br>TRAVIS.ANTONISSEN@ADSPIPE.COM |
| ADS SALES REP: | MATT NOBLE<br>951-603-6551<br>MATT.NOBLE@ADSPIPE.COM |
| PROJECT NO: | S349547 |

Advanced Drainage Systems, Inc.

**APPROVED BY:**

SIGNED:_____

DATE:_____

COMPANY:_____

PHONE / EMAIL:_____

# MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT

## SANTA ANA - CA

## CONTRACTOR PROVIDED DELIVERY SCHEDULE & SITE INFORMATION:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SYSTEM DESIGNATION / SIZE | | | | | | | | | |
| SYSTEM DELIVERY DATE | | | | | | | | | |

***ACTUAL DATE REQUIRED, ASAP IS NOT ACCEPTABLE AND A MINIMUM OF 4 WEEKS MUST BE PROVIDED UNLESS OTHERWISE DISCUSSED WITH A SALES REPRESENTATIVE.**

| DELIVERY INFORMATION | | | |
|---|---|---|---|
| JOB SITE STREET ADDRESS | | CITY | |
| CONTACT | | CONTACT PHONE | |
| ALTERNATE CONTACT | | ALTERNATE PHONE | |

**DIRECTIONS TO JOB SITE FROM NEAREST INTERSTATE:**
(PLEASE NO MAPS)

## ADS ECOPURE SPECIFICATIONS

**PRODUCTS**

A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF STAINLESS STEEL, RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA/VEGETATION: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA. VEGETATION IS VARIABLE DEPENDENT ON REGION. ITEMS CHOSEN SHOULD ALIGN WITH CONTROLLING MUNICIPAL, COUNTY, OR STATE REQUIREMENTS.

C. PRECAST CONCRETE VAULT: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

**PERFORMANCE**

A. THE STORMWATER FILTER SYSTEM SHALL BE AN OFFLINE DESIGN CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.
B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 85% OF SUSPENDED SOLIDS AND 70% OF TOTAL PHOSPHORUS.

## ECOPURE MAINTENANCE

THE ECOPURE SYSTEM REQUIRES PERIODIC MAINTENANCE TO CONTINUE OPERATING AT ITS PEAK EFFICIENCY DESIGN. THE MAINTENANCE PROCESS COMPRISES THE REMOVAL AND REPLACEMENT OF FILTER MEDIA AND VEGETATION AND THE CLEANING OF THE VAULT WITH A VACUUM TRUCK. FOR BEST RESULTS, ECOPURE MAINTENANCE SHOULD BE PERFORMED BY A CERTIFIED MAINTENANCE CONTRACTOR. A QUICK CALL TO AN ADS ENGINEER OR CUSTOMER SERVICE REPRESENTATIVE WILL PROVIDE YOU WITH A LIST OF RELIABLE CONTRACTORS IN YOUR AREA.

WHEN ECOPURE IS INITIALLY INSTALLED, WE RECOMMEND THAT AN INSPECTION BE PERFORMED ON THE SYSTEM IN THE FIRST SIX (6) MONTHS. AFTER THAT, THE INSPECTION CYCLE TYPICALLY FALLS INTO A BIANNUAL PATTERN GIVEN NORMAL STORM OCCURRENCE AND ACTUAL SOLIDS LOADS.

WHEN ECOPURE EXHIBITS FLOWS BELOW DESIGN LEVELS, THE SYSTEM SHOULD BE INSPECTED AND MAINTAINED AS SOON AS PRACTICAL.

MAINTENANCE OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADS-PIPE.COM.

## ECOPURE INSTALLATION NOTES

INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADS-PIPE.COM.

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SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR APP

# MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT

## SANTA ANA - CA

## SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

## IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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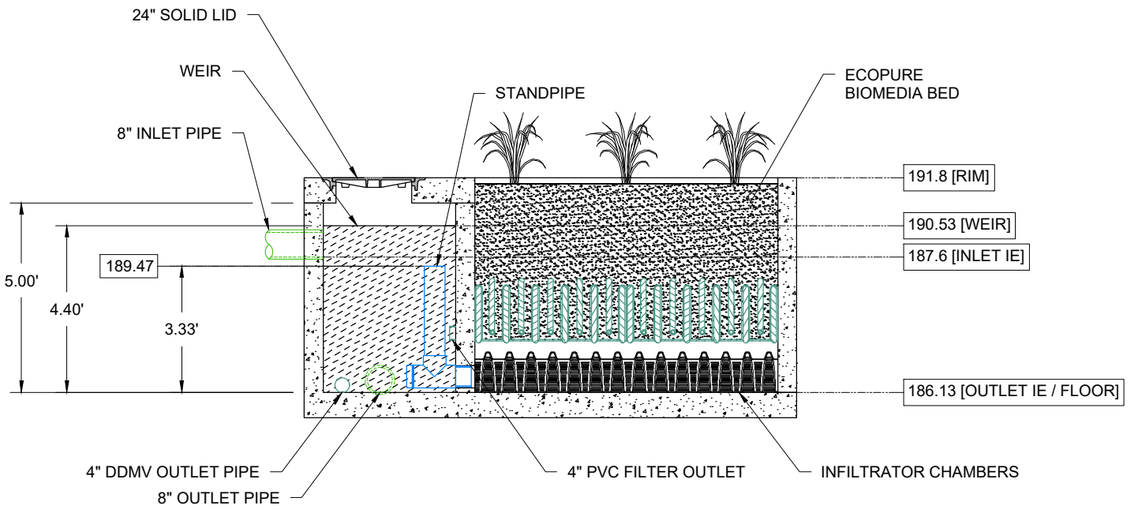
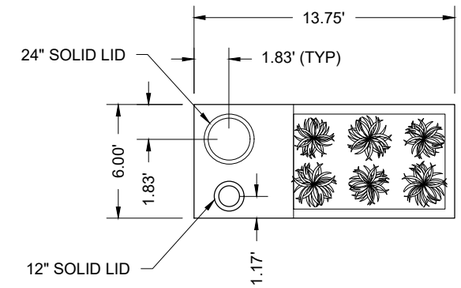
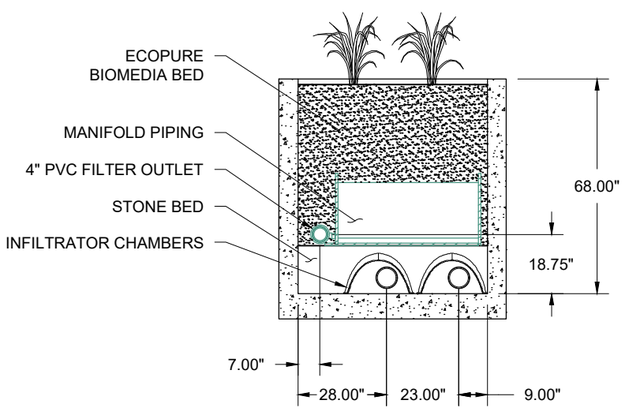


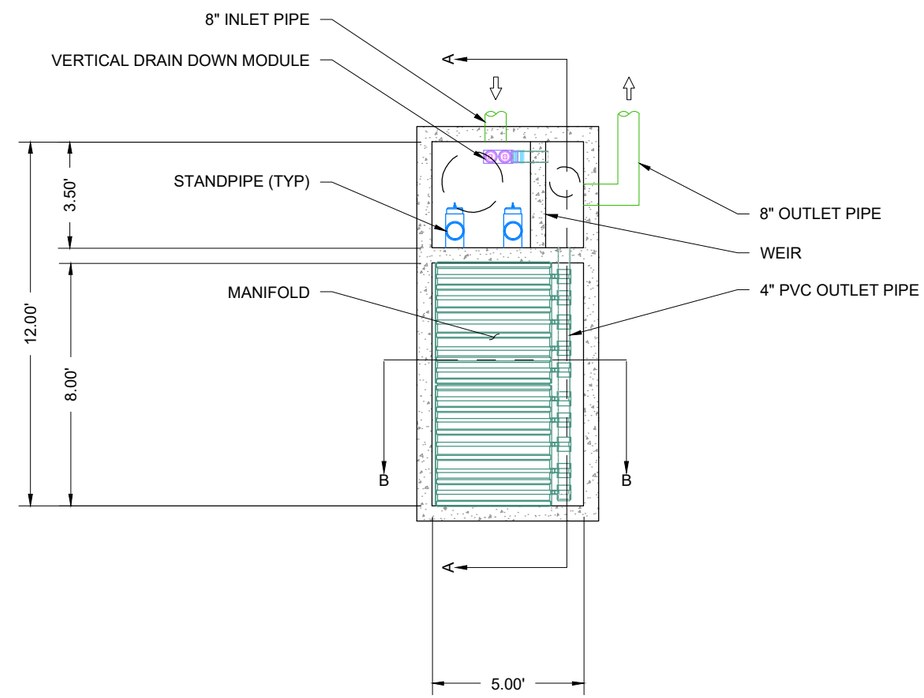

## SECTION A-A
NTS




## TOP SLAB PLAN VIEW
NTS / PIPE CONNECTIONS NOT SHOWN




## SECTION B-B
NTS




## PLAN VIEW
NTS

| ECOPURE BIOFILTER 120 | |
|---|---|
| WATER QUALITY FLOW RATE | 0.27 CFS |
| EFFECTIVE LOADING RATE | 1 GPM/SF |
| DRAINAGE AREA | |
| TREATED SEDIMENT CAPACITY | |

THE ECOPURE BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL and GREASE, TRASH AND BACTERIA. THE ECOPURE SYSTEM PROVIDES LINEAR TREATMENT DESIGN WITH AN UPFRONT PRETREATMENT CHAMBER.

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|

**EcoPure™ Biofilter**
Stormwater Media Filters

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

NOT TO SCALE

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## PROPOSED LAYOUT

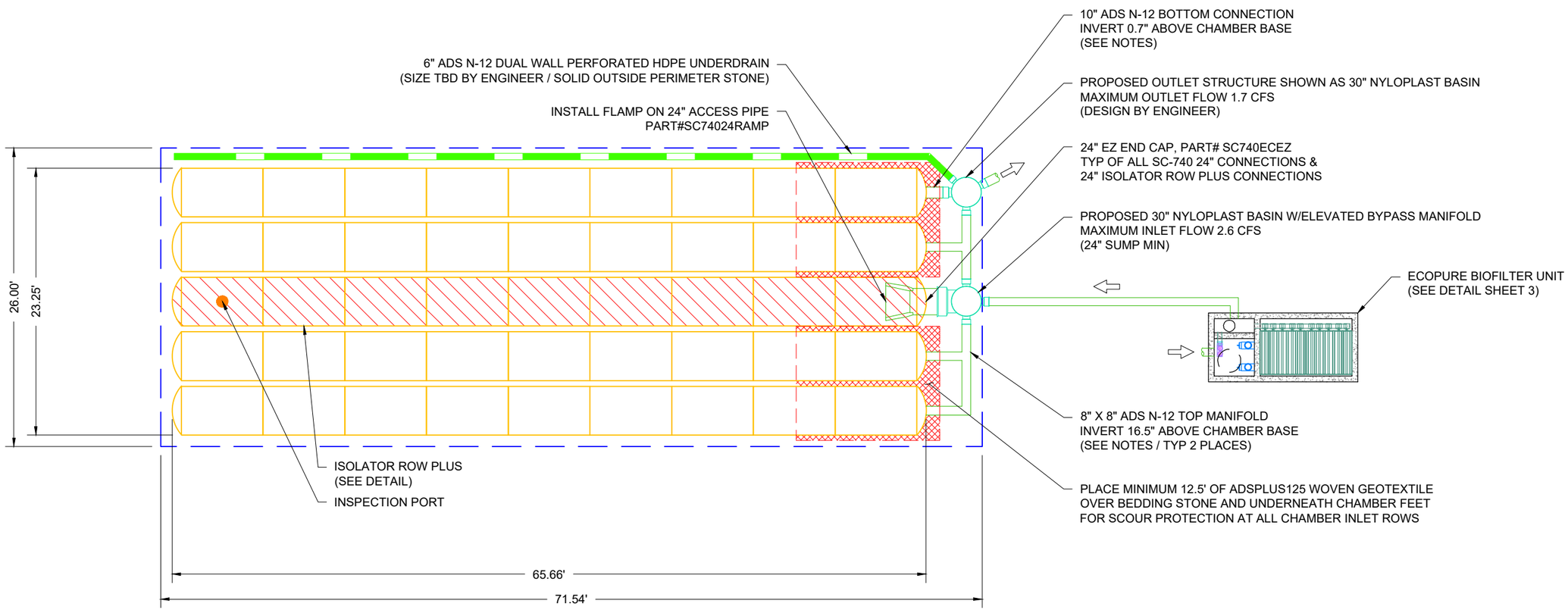
| | |
|---|---|
| 45 | STORMTECH SC-740 CHAMBERS |
| 10 | STORMTECH SC-740 END CAPS |
| 6 | STONE ABOVE (in) |
| 6 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **3,845** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 1860 | SYSTEM AREA (ft²) |
| 195 | SYSTEM PERIMETER (ft) |

## PROPOSED ELEVATIONS

| | |
|---|---|
| 196.57 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 190.57 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 190.07 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 189.07 | TOP OF STONE |
| 188.57 | TOP OF SC-740 CHAMBER |
| 187.45 | 8" TOP MANIFOLD INVERT |
| 186.13 | 10" BOTTOM MANIFOLD INVERT |
| 186.08 | 24" ISOLATOR ROW PLUS CONNECTION INVERT |
| 186.07 | BOTTOM OF SC-740 CHAMBER |
| 185.57 | UNDERDRAIN INVERT |
| 185.57 | BOTTOM OF STONE |

## NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.




MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

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Chamber System
888-892-2694 | WWW.STORMTECH.COM

0 10' 20'

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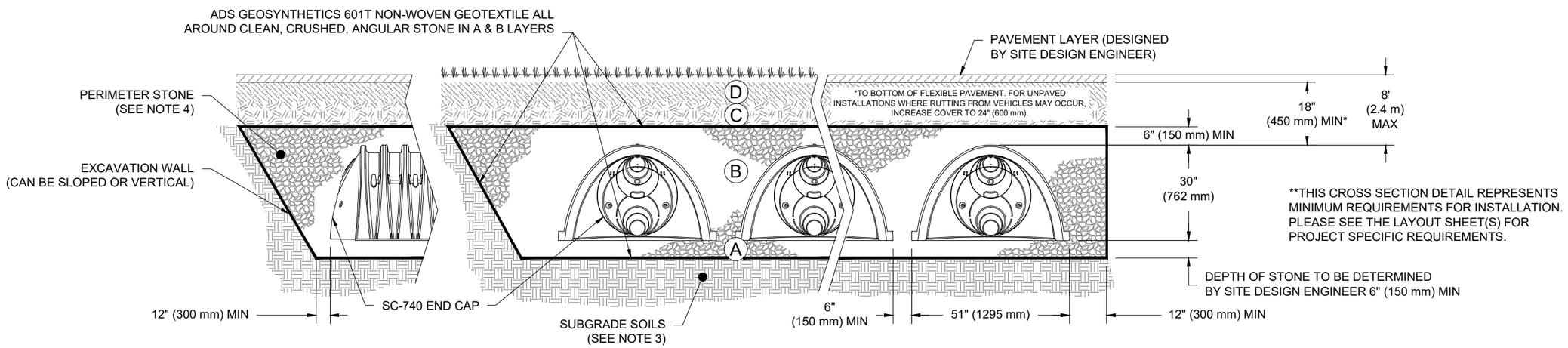
# ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1]<br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.




## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
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MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 | DRAWN: JLM
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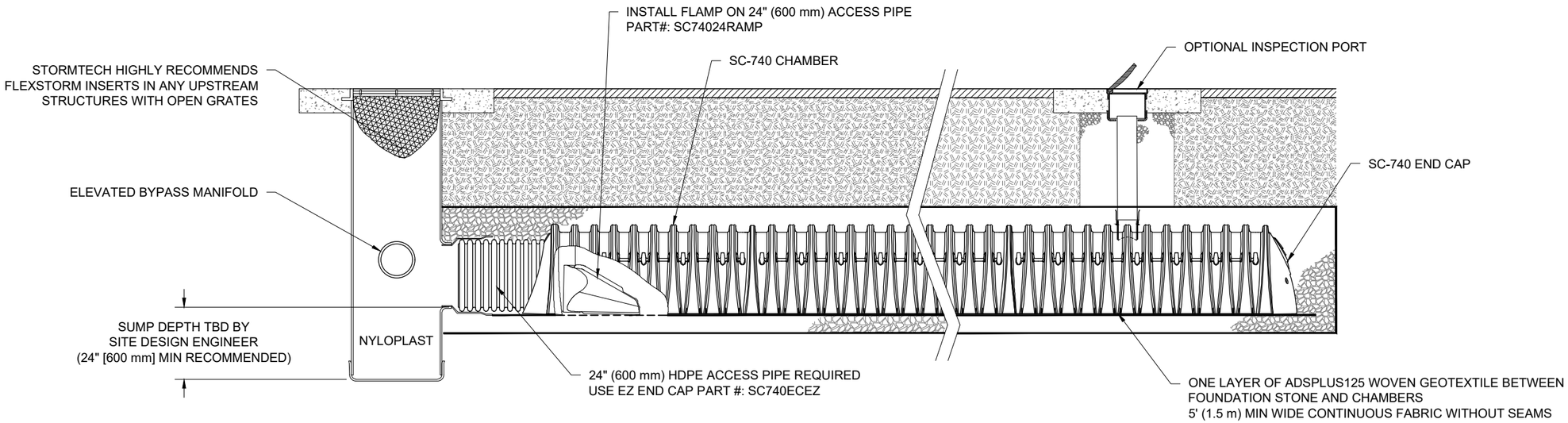



**SC-740 ISOLATOR ROW PLUS DETAIL**
NTS

## INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

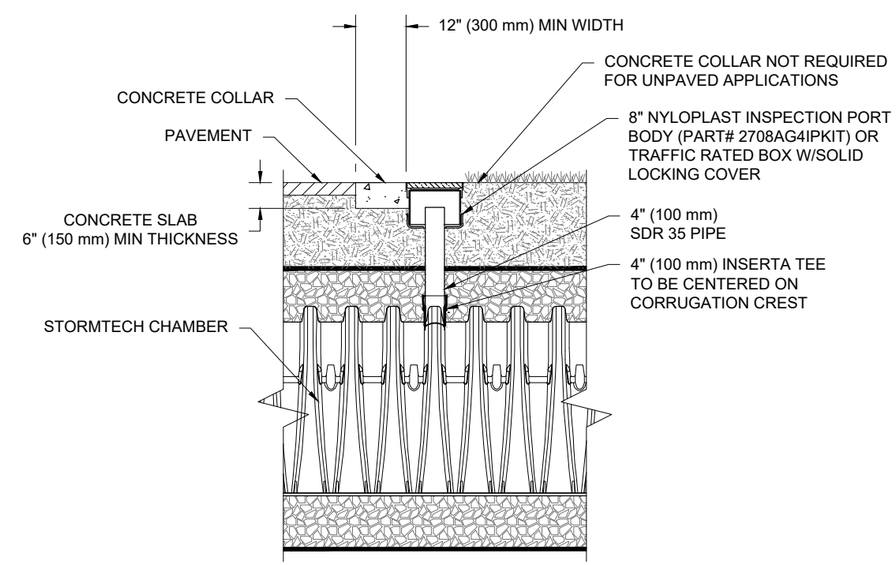
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

## NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.




NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

**4" PVC INSPECTION PORT DETAIL**
**(SC SERIES CHAMBER)**
NTS

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 | DRAWN: JLM
PROJECT #: S349547 | CHECKED: KLJ/PR

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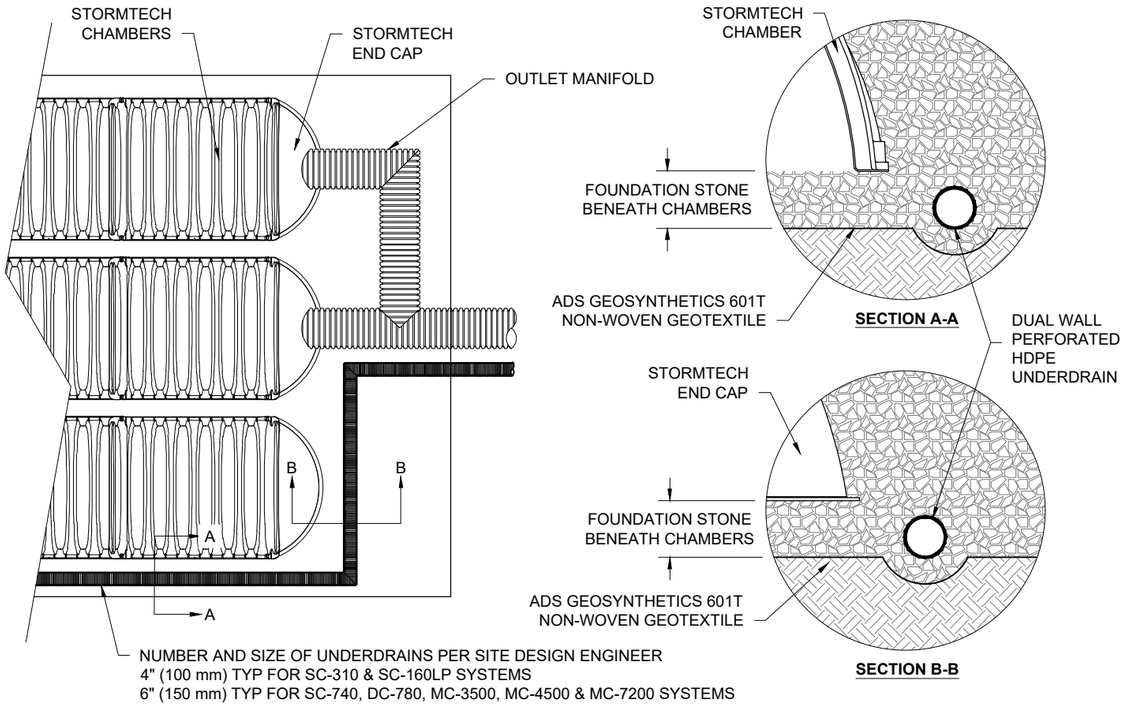
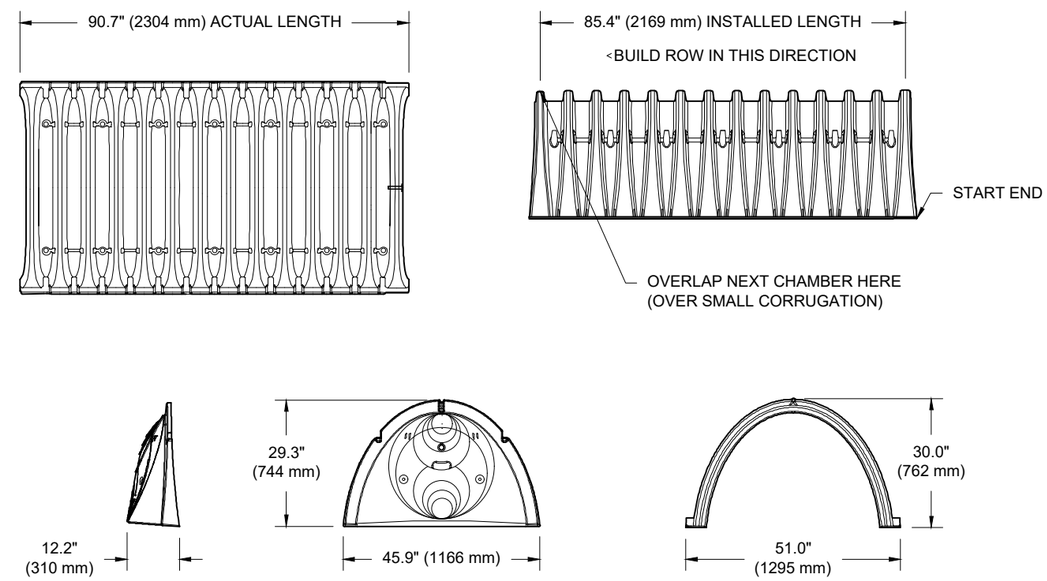
## UNDERDRAIN DETAIL

NTS




## SC-740 TECHNICAL SPECIFICATION

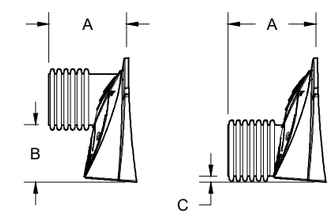
NTS




**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
| CHAMBER STORAGE | 45.9 CUBIC FEET | (1.30 m³) |
| MINIMUM INSTALLED STORAGE* | 74.9 CUBIC FEET | (2.12 m³) |
| WEIGHT | 75.0 lbs. | (33.6 kg) |

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS




PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

| PART # | STUB | A | B | C |
|---|---|---|---|---|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm) | 10.9" (277 mm) | 18.5" (470 mm) | --- |
| SC740EPE06B / SC740EPE06BPC | | | --- | 0.5" (13 mm) |
| SC740EPE08T /SC740EPE08TPC | 8" (200 mm) | 12.2" (310 mm) | 16.5" (419 mm) | --- |
| SC740EPE08B / SC740EPE08BPC | | | --- | 0.6" (15 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | 14.5" (368 mm) | --- |
| SC740EPE10B / SC740EPE10BPC | | | --- | 0.7" (18 mm) |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | 12.5" (318 mm) | --- |
| SC740EPE12B / SC740EPE12BPC | | | --- | 1.2" (30 mm) |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm) | --- |
| SC740EPE15B / SC740EPE15BPC | | | --- | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm) | --- |
| SC740EPE18B / SC740EPE18BPC | | | --- | 1.6" (41 mm) |
| SC740ECEZ* | 24" (600 mm) | 18.5" (470 mm) | --- | 0.1" (3 mm) |

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|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# APPENDIX I

# WATER QUALITY MANAGEMENT PLAN

# City of Santa Ana

# Water Quality Management Plan (WQMP)

**Project Name:**

**McDonald's Santa Ana, California**

**2109 E Santa Clara Avenue, Santa Ana, CA 92705**

**APN: 396-261-26, 396-261-33, 396-261-38**

**Prepared for:**

**Michael Gregg, Director of Construction and Entitlements**

**Stream Realty**

**3161 Michelson Drive, Suite 100**

**Irvine, CA 92612**

**(805) 215-6453**

**Prepared by:**

**Kimley-Horn and Associates, Inc.**

**Hannah Luevano, P.E. – RCE No. 90371**

**1100 Town and Country Road, Suite 700**

**Orange, CA 92868**

**(714-939-1030) | hannah.luevano@kimley-horn.com**

**CEQA Analysis Submittal: August, 2023**

| Project Owner's Certification | | | |
|---|---|---|---|
| Planning Application No. (If applicable) | TBD | Grading Permit No. | TBD |
| Tract/Parcel Map and Lot(s) No. | Parcel 1, 2, & 3 | Building Permit No. | TBD |
| Address of Project Site and APN (If no address, specify Tract/Parcel Map and Lot Numbers) | | | 2109 E Santa Clara Avenue, Santa Ana, CA 92705<br>APN: 396-261-26, 396-261-33, 396-261-38 |

This Water Quality Management Plan (WQMP) has been prepared for Stream Realty by Kimley-Horn and Associates, Inc. The WQMP is intended to comply with the requirements of the County of Orange NPDES Stormwater Program requiring the preparation of the plan.

The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan , including the ongoing operation and maintenance of all best management practices (BMPs), and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the current Orange County Drainage Area Management Plan (DAMP) and the intent of the non-point source NPDES Permit for Waste Discharge Requirements for the County of Orange, Orange County Flood Control District and the incorporated Cities of Orange County within the Santa Ana Region. Once the undersigned transfers its interest in the property, its successors-in-interest shall bear the aforementioned responsibility to implement and amend the WQMP. An appropriate number of approved and signed copies of this document shall be available on the subject site in perpetuity.

Representation on the Authority of Parties/Signatories. Each person signing this Agreement represents and warrants that he or she is duly authorized and has legal capacity to execute and deliver this Agreement. Each party represents and warrants to the other that the execution and delivery of the Agreement and the performance of such party's obligations hereunder have been duly authorized and that the Agreement is a valid and legal agreement binding on such party and enforceable in accordance with its terms. This agreement is binding on any successors in interest, designees or transferees. Attach proof of authority to execute this agreement.

| **Owner:** | | | |
|---|---|---|---|
| Title | Michael Gregg - Director of Construction and Entitlements | | |
| Company | Stream Realty | | |
| Address | 3161 Michelson Drive, Suite 100, Irvine, CA 92612 | | |
| Email | michael.gregg@streamrealty.com | | |
| Telephone # | (805) 215-6453 | | |
| I understand my responsibility to implement the provisions of this WQMP including the ongoing operation and maintenance of the best management practices (BMPs) described herein. | | | |
| Owner Signature | | Date | |

| **Preparer (Engineer): Hannah Luevano** | | | |
|---|---|---|---|
| Title | Hannah Luevano, P.E. - Civil Engineer | PE Registration # | 90371 |
| Company | Kimley-Horn and Associates, Inc. | | |
| Address | 1100 Town and Country Road, Suite 700, Orange, CA 92868 | | |
| Email | hannah.luevano@kimley-horn.com | | |
| Telephone # | (714-939-1030) | | |
| I hereby certify that this Water Quality Management Plan is in compliance with, and meets the requirements set forth in, Order No. R8-2009-0030/NPDES No. CAS618030, of the Santa Ana Regional Water Quality Control Board. | | | |
| Preparer Signature | HLuevano | Date | 6/29/2023 |
| Place Stamp Here | | | |

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## Attachments

**Attachment A..** ..... Watershed Area
**Attachment B..** ..... WQMP Site Plan
**Attachment C..** ..... Grading and Detail Sheets
**Attachment D .** ..... County Soils and Rainfall Maps
**Attachment E..** ..... Groundwater Feasibility
**Attachment F..** ..... Geotechnical Report
**Attachment G .** ..... Hydromodification
**Attachment H .** ..... LID Calculations
**Attachment I ..** ..... Educational Materials

# Section I Permit(s) and Water Quality Conditions of Approval or Issuance

Provide discretionary or grading/building permit information and water quality conditions of approval, or permit issuance, applied to the project. If conditions are unknown, please request applicable conditions from staff. *Refer to Section 2.1 in the Technical Guidance Document (TGD) available on the OC Planning website (ocplanning.net).*

| **Project Information** | | | |
|---|---|---|---|
| Permit/Application No. (If applicable) | TBD | Grading or Building Permit No. (If applicable) | TBD |
| Address of Project Site (or Tract Map and Lot Number if no address) and APN | 2109 E Santa Clara Avenue, Santa Ana, CA 92705<br>APN: 396-261-26, 396-261-33, 396-261-38 | | |
| | | | |
| **Water Quality Conditions of Approval or Issuance** | | | |
| Water Quality Conditions of Approval or Issuance applied to this project. (Please list verbatim.) | Conditions of approval shall be provided upon approval. | | |
| | | | |
| **Conceptual WQMP** | | | |
| Was a Conceptual Water Quality Management Plan previously approved for this project? | No | | |
| | | | |
| **Watershed-Based Plan Conditions** | | | |
| Provide applicable conditions from watershed - based plans including WIHMPs and TMDLS. | The project lies within the Newport Bay Watershed (Attachment A). Per the hydromodification susceptibility map, the project area is not exempt from hydromodification and is within an area with potential for erosion, habitat, & physical structure susceptibility. The project area has no existing storm drain system and all sheet flows to the curb and gutter off E Santa Clara Ave. The existing runoff flows east towards the public inlet in the intersection of E Santa Clara Ave and Tustin Ave. to discharges to Peters Canyon Wash, and ultimately to Newport Bay. Peters Canyon Wash has DDT, Indicator | | |

| | |
|---|---|
| | Bacteria, Toxaphene and pH listed on the 303(d) List. The Newport Bay (Ecological Reserve), which is downstream of Peter's Canyon Wash, has chlordane, copper, DDT, indicator bacteria, metals, nutrients, PCBs, pesticides, sediment toxicity, and sedimentation listed and pollutants on the 303(d) list.<br><br>From Table 2.4 "Summary of the Status of TMDLs for Waterbodies in Region 8 and 9 of the TGD the following pollutant affect Upper Newport Bay: Bacteria indicators/pathogens (implementation phase; Metals (technical TMDLs); Nutrients (implementation phase); Pesticides (technical TMDL's); and Turbidity / Siltation (implementation phase). The State Water Resources Control Board trash amendments requires full capture of trash/ |

# Section II Project Description

## II.1 Project Description

Provide a detailed project description including:

- Project areas;
- Land uses;
- Land cover;
- Design elements;
- A general description not broken down by drainage management areas (DMAs).

Include attributes relevant to determining applicable source controls. *Refer to Section 2.2 in the Technical Guidance Document (TGD) for information that must be included in the project description.*

| Description of Proposed Project | | | | |
|---|---|---|---|---|
| Development Category (From Model WQMP, Table 7.11-2; or -3): | Project falls under priority category 3<br>(Restaurants where the land area of development is 5,000 square feet or more including parking area. This category is defined as facilities that sell prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption.)<br>The project will disturb approximately 0.82 acres. As a result Section 7.II-20 of Model WQMP only applies to the replacement area as described below. | | | |
| Project Area ($ft^2$): 35530 | Number of Dwelling Units: N/A | | SIC Code: 5812 | |
| Project Area | Pervious | | Impervious | |
| | Area (acres or sq ft) | Percentage | Area (acres or sq ft) | Percentage |
| Pre-Project Conditions | 18,928 sq. ft. | 53.3% | 16,602 | 46.7% |
| Post-Project Conditions | 8,604 sq. ft. | 24.2% | 26,926 | 75.8% |

| | |
|---|---|
| Drainage Patterns/Connections | The existing runoff flows from the northwest and northeast corner of the property and sheet flows south. With no existing stormdrain system, the stormwater runoff sheet flows south from the existing driveway approaches onto the existing curb and gutter on E Santa Clara Ave. From E Santa Clara Ave. the stormwater runoff flows east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave and through the public storm drain system to Peter's Canyon Wash and ultimately discharges to the Newport Bay.<br><br>The existing drive aisle east of the proposed development will remain the same and continue to have the drainage area flowing south onto E Santa Clara Ave. The existing watersheds will be preserved. |

| | |
|---|---|
| Narrative Project Description: | The proposed project is in APN no. 396-261-26, 396-261-33, and 396-261-38 (2109 E Santa Clara Avenue, Santa Ana, CA 92705). The project is north of E Santa Clara Avenue and is surrounded by commercial developments from the north, east and west side of the property. The site disturbs approximately 0.82 acres and is comprised of two existing residential buildings and two associated garages surrounded by an existing wall to separate the parcels and drainage area. The project will demolish the existing residential buildings and associated driveway approaches to propose a new McDonald's restaurant, trash enclosure, drive through and associated parking lot.<br><br>The proposed building will be a rectangle-oriented North to South with entrances on the North, East, and West faces of the building. The drive-thru approach will be on the South side of the building and circulation is counter-clockwise. The drive-thru exit will be to the South side of the building. The building will have a roof drain system that discharges to the surface drive thru area and to proposed catch basins.<br><br>The proposed runoff will be captured via curb and gutters and valley gutters and conveyed northeast to the south west and towards one of three catch basins strategically placed throughout the site. The site has an artificial ridge line east of the property and separates the adjacent shared access aisle and the proposed restaurant area. The access aisle will sheet flow from the northeast corner of the property to the southeast driveway approach towards Santa Clara Ave. The remaining development area will sheet flow from the northeast corner of the property towards the southwest area of the property into the proposed catch basins. The catch basins will pipe into a proposed modular wetland system (MWS) to treat and capture the runoff for the 24-hour 85th percentile storm. After treatment, the stormwater runoff will discharge to a proposed underground retention system and eventually be pumped and piped out to the existing curb and gutter off E. Santa Clara Avenue. Per the ALTA survey and utility locate, there is no existing public stormwater lines adjacent to the property. The stormwater runoff will flow east off E. Santa Clara Avenue and to the existing curb inlet at the intersection of Santa Clara Ave. and Tustin Ave. to ultimately discharge onto the public storm drain system off Tustin Ave.<br><br>Land use at the proposed site will include indoor food preparation, cooking, indoor and outdoor eating areas, a drive-thru, and improvements to the surface parking and landscaping design. A covered trash enclosure is proposed at the northwest corner of the site. Expected wastes will be food waste, grease from cooking, trash and debris. |

## II.2 Potential Stormwater Pollutants

Determine and list expected stormwater pollutants based on land uses and site activities. *Refer to Section 2.2.2 and Table 2.1 in the Technical Guidance Document (TGD) for guidance.*

| Pollutants of Concern | | | |
|---|---|---|---|
| Pollutant | Check One for each: E=Expected to be of concern N=Not Expected to be of concern | | Additional Information and Comments |
| Suspended-Solid/ Sediment | E ☒ | N ☐ | Sediment pollutants can be generated in this category of project, it is listed in the 303(d) for the receiving waters. |
| Nutrients | E ☒ | N ☐ | Newport Bay has a TMDL for Nutrients. |
| Heavy Metals | E ☒ | N ☐ | Newport Bay has a TMDL for Heavy Metals (copper, metals). |
| Pathogens (Bacteria/Virus) | E ☒ | N ☐ | Indicator bacteria is expected to be generated and is listed on the 303(d) List. |
| Pesticides | E ☒ | N ☐ | Pesticides are considered in this category of project; it is listed in the 303(d) for the receiving waters. |
| Oil and Grease | E ☒ | N ☐ | Expected with proposed restaurant. |
| Toxic Organic Compounds | E ☒ | N ☐ | Expected with proposed landscaping |
| Trash and Debris | E ☒ | N ☐ | Expected with proposed trash enclosure. |

## II.3 Hydrologic Conditions of Concern

Determine if streams located downstream from the project area are potentially susceptible to hydromodification impacts. *Refer to Section 2.2.3.1 in the Technical Guidance Document (TGD) for North Orange County or Section 2.2.3.2 for South Orange County.*

☐ No – Show map

☒ Yes – Describe applicable hydrologic conditions of concern below. *Refer to Section 2.2.3 in the Technical Guidance Document (TGD).*

As shown in Appendix A, Watershed Susceptibility, the site area falls within the potential areas of erosion, habitat and physical structure susceptibility. Given the poor infiltration rates in the site and the decrease in pervious areas from existing conditions, the site will have a proposed BMP. The proposed BMP will allow the post-development runoff volume for the 2-yr, 24 hr storm event be less or equal to the pre-development runoff volume. Refer to Summary Table below and attached calculations in Attachment G for more information. Therefore, Hydrologic Conditions of Concern will be accounted for in the underground system so post-development site conditions match existing pre-development site conditions.

## II.4 Post Development Drainage Characteristics

Describe post development drainage characteristics. *Refer to Section 2.2.4 in the Technical Guidance Document (TGD).*

The proposed runoff will be captured via curb and gutters and valley gutters and conveyed northeast to the south west and towards one of three catch basins strategically placed throughout the site. The site has an artificial ridge line east of the property and separates the adjacent shared access aisle and the proposed restaurant area. The access aisle will sheet flow from the northeast corner of the property to the southeast driveway approach towards Santa Clara Ave. The remaining development area will sheet flow from the northeast corner of the property towards the southwest area of the property into the proposed catch basins. The proposed catch basins will pipe into a proposed modular wetland system (MWS) to treat and capture the runoff for the 24-hour 85th percentile storm. After treatment, the stormwater runoff will discharge to a proposed underground retention system and eventually be pumped and piped out to the existing curb and gutter off E. Santa Clara Avenue. Per the Alta survey and utility locate, there is no existing public stormwater lines adjacent to the property. The stormwater runoff will flow east off E. Santa Clara Avenue and to the existing curb inlet at the intersection of Santa Clara Ave. and Tustin Ave. to ultimately discharge onto the public storm drain system off Tustin Ave.

## II.5 Property Ownership/Management

Describe property ownership/management. *Refer to Section 2.2.5 in the Technical Guidance Document (TGD).*

The Stream Realty is the current owner of the site. The proposed development and BMPs will be maintained by McDonald's through a lease agreement with Stream Realty. The operation and maintenance costs of the BMPs will be incorporated with the operating budget for the restaurant.

# Section III Site Description

## III.1 Physical Setting

Fill out table with relevant information. *Refer to Section 2.3.1 in the Technical Guidance Document (TGD).*

| | |
|---|---|
| Name of Planned Community/Planning Area (if applicable) | Commercial |
| Location/Address | 2109 E Santa Clara Avenue, |
| | Santa Ana, CA 92705 |
| General Plan Land Use Designation | Community Commercial - Restaurant |
| Zoning | A1- General Agricultural |
| Acreage of Project Site | 0.82 |
| Predominant Soil Type | Hydraulic Group B |

## III.2 Site Characteristics

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.2 in the Technical Guidance Document (TGD).*

| Site Characteristics | |
|---|---|
| Precipitation Zone | 85th percentile depth is 0.77 inches |
| Topography | Site is relatively flat with slopes ranging from 0.5 – 2.8% and a surrounding wall to confine the area |

| | |
|---|---|
| Drainage Patterns/Connections | In proposed conditions, stormwater runoff is captured through a series of curb and gutters/valley gutters from the northeast corner of the property to flow to the southern portion of the property. The sheet flow is conveyed from the site into one of three proposed catch basins. Two of the catch basins are piped to the southern central catch basin containing the MWS unit. The MWS unit is placed on site for the treatment of the design capture volume and is piped to a proposed underground system used for the attenuation of storm water runoff. The stormwater runoff is then pumped and released onto the curb and gutter off E. Santa Clara Ave. to be discharged into the existing curb inlet off E. Santa Clara Ave and Tustin Ave. From the public stormwater drain system, the runoff ultimately drains to Peter's Canyon Wash and discharges to the Newport Bay. |
| Soil Type, Geology, and Infiltration Properties | A geotechnical report is attached, and two preliminary percolation testers were preformed October 9, 2021. The geotechnical report shows at a depth of 5 feet, soil has infiltration rates of 0.22 in/hr. and 0.18 in/hr. Infiltration was deemed infeasible. |
| Hydrogeologic (Groundwater) Conditions | Based on the geotechnical report, ground water was not found at a maximum depth of 21.5 feet below existing grade. The geotechnical report states, based on a nearby well data (Well337646N1178432W002), the highest groundwater level is reportedly situated at a depth of approximately 214 feet below the ground surface, which was recorded on March 12th, 2021.<br><br>Historic high groundwater is 30 feet below the ground surface |
| Geotechnical Conditions (relevant to infiltration) | A geotechnical report is attached, and two preliminary percolation testers were preformed October 9, 2021. The geotechnical report shows at a depth of 5 feet, soil has infiltration rates of 0.22 in/hr. and 0.18 in/hr. Infiltration was deemed infeasible. |
| Off-Site Drainage | The site does not receive off-site storm flow. |
| Utility and Infrastructure Information | Water, gas, sewer, electrical, and communication lines are located on-site per the Alta survey. All existing utilities on-site will be removed to the property line as part of the demolition of the existing development and a new connection will be made to all utilities as part of these improvements. |

## III.3 Watershed Description

Fill out table with relevant information and include information regarding BMP sizing, suitability, and feasibility, as applicable. *Refer to Section 2.3.3 in the Technical Guidance Document (TGD).*

| | |
|---|---|
| Receiving Waters | Peter's Canyon Wash, Upper Newport Bay (Ecological Reserve), Lower Newport Bay |
| 303(d) Listed Impairments | Peter's Canyon Wash – DDT, Indicator Bacteria, Toxaphene and pH<br>Upper Newport Bay – Chlorodane, Copper, DDT, Indicator Bacteria, Metals, Nutrients, PCBs, Pesticides, Sediment Toxicity, and Sedimentation/ Siltation<br>Lower Newport Bay – Chlordane, Copper, DDT, Indicator Bacteria, Nutrients, PCBs, Toxicity |
| Applicable TMDLs | Bacteria, Metals, Nutrients, Pesticides, Toxicity, Sediments and Trash |
| Pollutants of Concern for the Project | Bacteria, Metals, Nutrients, Pesticides, Sediments, Toxicity, and Trash. |
| Environmentally Sensitive and Special Biological Significant Areas | Upper Newport Bay & Lower Newport Bay |

# Section IV Best Management Practices (BMPs)

## IV. 1 Project Performance Criteria

Describe project performance criteria. Several steps must be followed in order to determine what performance criteria will apply to a project. These steps include:

- If the project has an approved WIHMP or equivalent, then any watershed specific criteria must be used and the project can evaluate participation in the approved regional or sub-regional opportunities. (Please ask your assigned planner or plan checker regarding whether your project is part of an approved WIHMP or equivalent.)
- Determine applicable hydromodification control performance criteria. *Refer to Section 7.II-2.4.2.2 of the Model WQMP.*
- Determine applicable LID performance criteria. *Refer to Section 7.II-2.4.3 of the Model WQMP.*
- Determine applicable treatment control BMP performance criteria. *Refer to Section 7.II-*3.2.2 *of the Model WQMP.*
- Calculate the LID design storm capture volume for the project. *Refer to Section 7.II-2.4.3 of the Model WQMP.*

| | | |
|---|---|---|
| (NOC Permit Area only) Is there an approved WIHMP or equivalent for the project area that includes more stringent LID feasibility criteria or if there are opportunities identified for implementing LID on regional or sub-regional basis? | YES ☐ | NO ☒ |
| If yes, describe WIHMP feasibility criteria or regional/sub-regional LID opportunities. | N/A | |

| Project Performance Criteria | |
|---|---|
| If HCOC exists, list applicable hydromodification control performance criteria (Section 7.II-2.4.2.2 in MWQMP) | The proposed underground system will attenuate the 2-year, 24-hour storm event per requirements to match existing conditions since there is HCOC because of the decreased pervious area in the site. The DVC mitigates the site runoff volume in addition to the decrease in runoff volume provided by the increased on-site pervious area. |
| List applicable LID performance criteria (Section 7.II-2.4.3 from MWQMP) | Priority projects must infiltrate, harvest and use, evapotranspire, or biotreat / biofilter, the 85th percentile, 24-hour storm event (Design Capture Volume) |
| List applicable treatment control BMP performance criteria (Section 7.II-3.2.2 from MWQMP) | If not feasible to meet the LID performance criteria though retention and / or biotreatment provided on-site or at a sub-regional / regional scale, then treatment control BMPs shall be provided on-site or off-site prior to discharge to waters of the US. Sizing of treatment control BMP(s) shall be based on either the unmet volume after claiming applicable water quality credits, if appropriate (see Section 7.II-3.1 Water Quality Credits) and as calculated in TGD Appendix VI. If treatment control BMPs can treat all the remaining unmet volume and have a medium to high effectiveness for reducing the primary POCs, the project is in compliance; a waiver application and participation in an alternative program is not required. |
| Calculate LID design storm capture volume for Project. | The minimum Design Capture Volume (DCV) for the project is 1,667 cubic feet.<br>HSCs ($d_{HSC}$) : 0 in<br>Remaining Storm Depth ($d_{remainder}$): 0.78 in<br>Project Tributary Area: 0.82 Acres<br>Impervious (imp): 0.758 unitless<br>Runoff Coefficient: 0.718 unitless ((C = 0.75 x imp) + 0.15)<br>Runoff Volume: (DCV = C x $d_{remainder}$ x A x 43560 x (1/12)) = 1,638 cf<br>The project is utilizing a proprietary MWS system to treat the DCV and is designed to draw down within the required 48 hours. The system selected will meet the required drawdown criteria. See Attachment H for LID BMP Calculations. In addition, to meet |

| | |
|---|---|
| | the full trash capture requirement, the project is utilizing full trash capture catch basin filter inserts at each of the drop inlets prior to the MWS system. |

## IV.2. Site Design and Drainage

Describe site design and drainage including

- A narrative of site design practices utilized or rationale for not using practices;
- A narrative of how site is designed to allow BMPs to be incorporated to the MEP
- A table of DMA characteristics and list of LID BMPs proposed in each DMA.
- Reference to the WQMP "BMP Exhibit."
- Calculation of Design Capture Volume (DCV) for each drainage area.
- A listing of GIS coordinates for LID and Treatment Control BMPs.

*Refer to Section 2.4.2 in the Technical Guidance Document (TGD).*

The project disturbs approximately 0.82 acres and consists of four existing residential buildings surrounded by an existing wall to separate the parcels and drainage area. The project will demolish the existing residential buildings and associated driveway approaches to propose a new McDonald's restaurant, trash enclosure, drive through and associated parking lot.

The existing runoff flows from the northwest and northeast corner of the property and sheet flows south. With no existing stormwater system, the stormwater runoff sheet flows south from the existing driveway approaches onto the existing curb and gutter on E Santa Clara Ave. From E Santa Clara Ave. the stormwater runoff flows east to the curb inlet on the intersection of E Santa Clara Ave and Tustin Ave and through the public storm drain system to Peter's Canyon Wash and ultimately discharges to the Newport Bay.

The existing drive aisle east of the proposed development will remain the same and continue to have the drainage area flowing south onto E Santa Clara Ave. The existing watersheds will be preserved.

In the proposed condition, the site has been separated into three Drainage Areas (DA) as follows: DA 1 will consist of most of the development and will be treated by the modular wetland system (MWS) and underground retention system. DA 2 is solely landscape areas and will be considered self-treating and DA 3 will match existing conditions in the shared access aisle and will sheet flow off E. Santa Clara Ave. Refer to Attachment B for the WQMP Site Plan and Details.

In DA 1, the proposed runoff will be captured via curb and gutters and valley gutters and conveyed northeast to the southwest and towards one of three catch basins strategically placed throughout the site. The stormwater runoff will flow from the proposed catch basins and be piped into a proposed modular wetland system (MWS) to capture and treat the runoff for the 24-hour 85th percentile storm. After treatment, the stormwater runoff will discharge to a proposed underground retention system and eventually be pumped and piped out to the existing curb and gutter off E. Santa Clara Avenue. Per the Alta survey and utility locate, there is no existing public stormwater lines adjacent to the property. The stormwater runoff will flow east off E. Santa Clara Avenue and to the existing curb inlet at the intersection of Santa Clara Ave. and Tustin Ave. to ultimately discharge onto the public storm drain system off Tustin Ave.

During large storm events, the underground retention will serve to infiltrate and release onto the curb and gutter off E Santa Clara. See Attachment B Proposed Site Hydrology Exhibit.

## IV.3 LID BMP Selection and Project Conformance Analysis

Each sub-section below documents that the proposed design features conform to the applicable project performance criteria via check boxes, tables, calculations, narratives, and/or references to worksheets. *Refer to Section 2.4.2.3 in the Technical Guidance Document (TGD) for selecting LID BMPs and Section 2.4.3 in the Technical Guidance Document (TGD) for conducting conformance analysis with project performance criteria.*

### IV.3.1 Hydrologic Source Controls (HSCs)

If required HSCs are included, fill out applicable check box forms. If the retention criteria are otherwise met with other LID BMPs, include a statement indicating HSCs not required.

| Name | Included? |
|---|---|
| Localized on-lot infiltration | ☐ |
| Impervious area dispersion (e.g. roof top disconnection) | ☐ |
| Street trees (canopy interception) | ☐ |
| Residential rain barrels (not actively managed) | ☐ |
| Green roofs/Brown roofs | ☐ |
| Blue roofs | ☐ |
| Impervious area reduction (e.g. permeable pavers, site design) | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |

## IV.3.2 Infiltration BMPs

Identify infiltration BMPs to be used in project. If design volume cannot be met, state why.

| Name | Included? |
|---|---|
| Bioretention without underdrains | ☐ |
| Rain gardens | ☐ |
| Porous landscaping | ☐ |
| Infiltration planters | ☐ |
| Retention swales | ☐ |
| Infiltration trenches | ☐ |
| Infiltration basins | ☐ |
| Drywells | ☐ |
| Subsurface infiltration galleries | ☐ |
| French drains | ☐ |
| Permeable asphalt | ☐ |
| Permeable concrete | ☐ |
| Permeable concrete pavers | ☐ |
| Other: | ☐ |
| Other: | ☐ |

Show calculations below to demonstrate if the LID Design Strom Capture Volume can be met with infiltration BMPs. If not, document how much can be met with infiltration and document why it is not feasible to meet the full volume with infiltration BMPs.

Infiltration is not an acceptable BMP for this site, see description in Section IV.2. See also Worksheet I: Summary of Groundwater-related Feasibility Criteria from Appendix VIII of the OCTGD located in Appendix E of this Report.

### IV.3.3 Evapotranspiration, Rainwater Harvesting BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, describe any evapotranspiration and/or rainwater harvesting BMPs included.

| Name | Included? |
|---|---|
| All HSCs; *See Section IV.3.1* | ☐ |
| Surface-based infiltration BMPs | ☐ |
| Biotreatment BMPs | ☐ |
| Above-ground cisterns and basins | ☐ |
| Underground detention | ☐ |
| Other: | ☐ |
| Other: | ☐ |
| Other: | ☐ |

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with evapotranspiration and/or rainwater harvesting BMPs in combination with infiltration BMPs. If not, document below how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

It is not feasible to demonstrate LID Design can be met with evapotranspiration, rainwater harvesting or infiltration for the storm capture volume. The quantity of runoff generated during a 2 year 24 hour storm is not adequate to satisfy the needs of the building (toilet flushing) or landscape irrigation. See Appendix H for supporting calculations.

### IV.3.4 Biotreatment BMPs

If the full Design Storm Capture Volume cannot be met with infiltration BMPs, and/or evapotranspiration and rainwater harvesting BMPs, describe biotreatment BMPs included. Include sections for selection, suitability, sizing, and infeasibility, as applicable.

| Name | Included? |
|---|---|
| Bioretention with underdrains | ☐ |
| Stormwater planter boxes with underdrains | ☐ |
| Rain gardens with underdrains | ☐ |
| Constructed wetlands | ☐ |
| Vegetated swales | ☐ |
| Vegetated filter strips | ☐ |
| Proprietary vegetated biotreatment systems | ☒ |
| Wet extended detention basin | ☐ |
| Dry extended detention basins | ☐ |
| Other: | ☐ |
| Other: | ☐ |

Show calculations below to demonstrate if the LID Design Storm Capture Volume can be met with infiltration, evapotranspiration, rainwater harvesting and/or biotreatment BMPs. If not, document how much can be met with either infiltration BMPs, evapotranspiration, rainwater harvesting BMPs, or a combination, and document why it is not feasible to meet the full volume with these BMP categories.

The proprietary vegetated biotreatment system selected for this project is the Modular Wetland System (MWS) or an approved equivalent. This device is flow-based BMPs, rather than volumetric-based BMPs. Calculations were completed using the rational method and intensity data from NOAA (National Oceanic and Atmospheric Administration). See Section IV.1 Project Performance Criteria.

### IV.3.5 Hydromodification Control BMPs

Describe hydromodification control BMPs. *See Section 5 of the Technical Guidance Document (TGD).* Include sections for selection, suitability, sizing, and infeasibility, as applicable. Detail compliance with Prior Conditions of Approval (if applicable).

| Hydromodification Control BMPs | |
|---|---|
| **BMP Name** | **BMP Description** |
| Underground System | Underground retention system used to attenuate 2-year, 24-hour storm event to match existing conditions |
| | |

### IV.3.6 Regional/Sub-Regional LID BMPs

Describe regional/sub-regional LID BMPs in which the project will participate. *Refer to Section 7.II-2.4.3.2 of the Model WQMP*.

| Regional/Sub-Regional LID BMPs |
|---|
| N/A |

### IV.3.7 Treatment Control BMPs

Treatment control BMPs can only be considered if the project conformance analysis indicates that it is not feasible to retain the full design capture volume with LID BMPs. Describe treatment control BMPs including sections for selection, sizing, and infeasibility, as applicable.

| Treatment Control BMPs | |
|---|---|
| **BMP Name** | **BMP Description** |
| N/A | N/A |
| | |

## IV.3.8 Non-structural Source Control BMPs

Fill out non-structural source control check box forms or provide a brief narrative explaining if non-structural source controls were not used.

| Non-Structural Source Control BMPs | | | | |
|---|---|---|---|---|
| Identifier | Name | Check One | | If not applicable, state brief reason |
| | | Included | Not Applicable | |
| N1 | Education for Property Owners, Tenants and Occupants | ☒ | ☐ | |
| N2 | Activity Restrictions | ☒ | ☐ | |
| N3 | Common Area Landscape Management | ☒ | ☐ | |
| N4 | BMP Maintenance | ☒ | ☐ | |
| N5 | Title 22 CCR Compliance (How development will comply) | ☒ | ☐ | |
| N6 | Local Industrial Permit Compliance | ☐ | ☒ | No fuel dispensing or other area of concern to the public property. |
| N7 | Spill Contingency Plan | ☐ | ☒ | No hazardous material or chemical on-site. |
| N8 | Underground Storage Tank Compliance | ☒ | ☐ | |
| N9 | Hazardous Materials Disclosure Compliance | ☐ | ☒ | No hazardous material on-site. |
| N10 | Uniform Fire Code Implementation | ☒ | ☐ | |
| N11 | Common Area Litter Control | ☒ | ☐ | |
| N12 | Employee Training | ☒ | ☐ | |
| N13 | Housekeeping of Loading Docks | ☐ | ☒ | No loading docks. |
| N14 | Common Area Catch Basin Inspection | ☒ | ☐ | |
| N15 | Street Sweeping Private Streets and Parking Lots | ☒ | ☐ | |
| N16 | Retail Gasoline Outlets | ☐ | ☒ | No gasoline outlets |

## IV.3.9 Structural Source Control BMPs

Fill out structural source control check box forms or provide a brief narrative explaining if structural source controls were not used.

| Structural Source Control BMPs | | | | |
|---|---|---|---|---|
| **Identifier** | **Name** | **Check One** | | **If not applicable, state brief reason** |
| | | **Included** | **Not Applicable** | |
| S1 | Provide storm drain system stenciling and signage | ☒ | ☐ | |
| S2 | Design and construct outdoor material storage areas to reduce pollution introduction | ☒ | ☐ | |
| S3 | Design and construct trash and waste storage areas to reduce pollution introduction | ☒ | ☐ | |
| S4 | Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control | ☒ | ☐ | |
| S5 | Protect slopes and channels and provide energy dissipation | ☐ | ☒ | No slopes/channels to be disturbed as part of this project. |
| | Incorporate requirements applicable to individual priority project categories (from SDRWQCB NPDES Permit) | ☒ | ☐ | |
| S6 | Dock areas | ☐ | ☒ | No dock areas proposed |
| S7 | Maintenance bays | ☐ | ☒ | No maintenance bays proposed |
| S8 | Vehicle wash areas | ☐ | ☒ | No vehicle wash areas proposed |
| S9 | Outdoor processing areas | ☐ | ☒ | No outdoor processing areas proposed |
| S10 | Equipment wash areas | ☐ | ☒ | No equipment wash areas proposed |
| S11 | Fueling areas | ☐ | ☒ | No fueling areas proposed |
| S12 | Hillside landscaping | ☐ | ☒ | No hillside landscaping proposed |
| S13 | Wash water control for food preparation areas | ☒ | ☐ | Wash water for food preparation areas will be discharged to the on-site grease interceptor. |
| S14 | Community car wash racks | ☐ | ☒ | No community car wash racks proposed |

## IV.4 Alternative Compliance Plan (If Applicable)

N/A

### IV.4.1 Water Quality Credits

Determine if water quality credits are applicable for the project. *Refer to Section 3.1 of the Model WQMP for description of credits and Appendix VI of the Technical Guidance Document (TGD) for calculation methods for applying water quality credits.*

| Description of Proposed Project | | | | |
|---|---|---|---|---|
| Project Types that Qualify for Water Quality Credits (Select all that apply): | | | | |
| ☐Redevelopment projects that reduce the overall impervious footprint of the project site. | ☐Brownfield redevelopment, meaning redevelopment, expansion, or reuse of real property which may be complicated by the presence or potential presence of hazardous substances, pollutants or contaminants, and which have the potential to contribute to adverse ground or surface WQ if not redeveloped. | | ☐ Higher density development projects which include two distinct categories (credits can only be taken for one category): those with more than seven units per acre of development (lower credit allowance); vertical density developments, for example, those with a Floor to Area Ratio (FAR) of 2 or those having more than 18 units per acre (greater credit allowance). | |
| ☐ Mixed use development, such as a combination of residential, commercial, industrial, office, institutional, or other land uses which incorporate design principles that can demonstrate environmental benefits that would not be realized through single use projects (e.g. reduced vehicle trip traffic with the potential to reduce sources of water or air pollution). | | ☐ Transit-oriented developments, such as a mixed use residential or commercial area designed to maximize access to public transportation; similar to above criterion, but where the development center is within one half mile of a mass transit center (e.g. bus, rail, light rail or commuter train station). Such projects would not be able to take credit for both categories, but may have greater credit assigned | | ☐ Redevelopment projects in an established historic district, historic preservation area, or similar significant city area including core City Center areas (to be defined through mapping). |
| ☐Developments with dedication of undeveloped portions to parks, preservation areas and other pervious uses. | ☐ Developments in a city center area. | ☐ Developments in historic districts or historic preservation areas. | ☐ Live-work developments, a variety of developments designed to support residential and vocational needs together – similar to criteria to mixed use development; would not be able to take credit for both categories. | ☐In-fill projects, the conversion of empty lots and other underused spaces into more beneficially used spaces, such as residential or commercial areas. |
| Calculation of Water Quality Credits | There is no credit for this site because the overall impervious footprint is increased and no other credits apply. | | | |

## IV.4.2 Alternative Compliance Plan Information

Describe an alternative compliance plan (if applicable). Include alternative compliance obligations (i.e., gallons, pounds) and describe proposed alternative compliance measures. *Refer to Section 7.II 3.0 in the Model WQMP.*

N/A

# Section V Inspection/Maintenance Responsibility for BMPs

Fill out information in table below. Prepare and attach an Operation and Maintenance Plan. Identify the funding mechanism through which BMPs will be maintained. Inspection and maintenance records must be kept for a minimum of five years for inspection by the regulatory agencies. *Refer to Section 7.II 4.0 in the Model WQMP.*

| BMP Inspection/Maintenance | | | |
|---|---|---|---|
| **BMP** | **Reponsible Party(s)** | **Inspection/ Maintenance Activities Required** | **Minimum Frequency of Activities** |
| Bio-Clean Catch Basin Filter Insert | McDonald's | Refer to Operations and Maintenance in Appendix J | Quarterly and at least once before the beginning of the raining season (October 1st) |
| Modular Wetland System | McDonald's | Maintenance in Appendix J | Quarterly and at least once before the beginning of the raining season (October 1st) |
| Underground System | McDonald's | Maintenance in Appendix J | Quarterly and at least once before the beginning of the raining season (October 1st) |
| "No Dumping" Storm Drain Stencil | McDonald's | Replace existing stencilling | As needed |
| Nl - Education for Property Owners, Tenants and Occupants | McDonald's | The owner shall employ an educational program to staff encompassing importance of stormwater management and BMP implementation. | Upon initial employment, Annually thereafter |

| | | | |
|---|---|---|---|
| N2 – Activity Restrictions | McDonald's | The Project will establish the following policies prohibiting activities during operations.<br>• Prohibit discharge of fertilizer, pesticide, or animal waste to street or storm drain.<br>• Prohibit blowing or sweeping of debris (leaf litter, grass clippings, litter, etc.) into street or storm drain.<br>• Require dumpster lid to be closed at all times.<br>• Prohibit discharge of paint or masonry waste to street or storm drain<br>• Prohibit vehicle washing, maintenance, or repair on premises. | Varies by BMP |
| N3 - Common Area Landscape Management | McDonald's | The owner shall direct maintenance staff to employ landscaping practices be consistent with the City of Santa Ana requirements for use of fertilizer, pesticides, and City ordinances for water conservation. | Quarterly, as seasons change |
| N4-BMP Maintenance | McDonald's | The following BMPs and practices shall be employed and regularly maintained:<br>Site Design BMPs<br>• SD-10 Site Design & Landscape Planning<br>• SD-12 Efficient Irrigation<br>• SD-13 Storm Drain Signage<br>• SD-32 Trash Storage Areas Source Control BMPs<br>• SC-10 Non-Stormwater Discharges<br>• SC-11 Spill Prevention, Control and Cleanup<br>• SC-41 Building and Grounds Maintenance<br>• SC-44 Drainage System Maintenance | Varies by BMP |
| N10 Uniform Fire Code Implementation | McDonald's | • Fire riser is located at the northwest corner of the building.<br>• Sewer cleanout is located on the north face of the building.<br>• During a fire sprinkler test, the fire riser discharge shall be connected by a hose to the sewer cleanout.<br>• See the note in Fact Sheet SC-41 "Building and Ground Maintenance" | Regularly (2 times a year minimum) or as determined necessary. |

| | | | |
|---|---|---|---|
| N12 Employee Training | McDonald's | The owner shall employ an educational program to staff encompassing importance of stormwater management and BMP implementation. | Upon initial employment, Annually thereafter |
| N12 Common Area Catch Basin Inspection | McDonald's | • Immediate repair of any deterioration threatening structural integrity.<br>• Cleaning as frequently as necessary to prevent from reaching 40% full<br>• Inspect and repair/replace stenciling as necessary<br>• Clean catch basins/inlets before wet season to remove sediments and debris accumulated during the summer<br>• Conduct inspections more frequently during the wet season for problem areas where sediment or trash accumulates more often. Clean and repair as needed.<br>• Keep accurate logs of the number of catch basins cleaned<br>• Store waste collected from cleaning activities of the drainage system in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain<br>• Dewater the wastes if necessary. Properly dispose of de-watered material. | Quarterly, as seasons change |
| N15 Street Sweeping Private Streets and Parking Lots | McDonald's | • Plaza, sidewalks, and parking lots shall be swept regularly to prevent accumulation of litter and debris<br>• All paved surfaces must be power cleaned at least one time a year or more as required to prevent polluted runoff.<br>• Debris from pressure washing shall be collected to prevent entry into the storm drain system. Washwater containing any cleaning agent or degreaser shall be collected and discharged to the sanitary sewer and not discharged to a storm drain.<br>• See Fact Sheets SC-43 "Parking/Storage Area Maintenance" and SC-70 "Road and Street Maintenance" | Daily |

# Section VI BMP Exhibit (Site Plan)

## VI.1 BMP Exhibit (Site Plan)

Include a BMP Exhibit (Site Plan), at a size no less than 24" by 36," which includes the following minimum information:

- Insert in the title block (lower right hand corner) of BMP Exhibit: the WQMP Number (assigned by staff) and the grading/building or Planning Application permit numbers
- Project location (address, tract/lot number(s), etc.)
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural BMP locations
- Drainage delineations and flow information
- Delineate the area being treated by each structural BMP
- GIS coordinates for LID and Treatment Control BMPs
- Drainage connections
- BMP details
- Preparer name and stamp

Please do not include any areas outside of the project area or any information not related to drainage or water quality. The approved BMP Exhibit (Site Plan) shall be submitted as a plan sheet on all grading and building plan sets submitted for plan check review and approval. The BMP Exhibit shall be at the same size as the rest of the plan sheets in the submittal and shall have an approval stamp and signature prior to plan check submittal.

## VI.2 Submittal and Recordation of Water Quality Management Plan

Following approval of the Final Project-Specific WQMP, three copies of the approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be submitted. In addition, these documents shall be submitted in a PDF format.

Each approved WQMP (including BMP Exhibit, Operations and Maintenance (O&M) Plan, and Appendices) shall be recorded in the Orange County Clerk-Recorder's Office, prior to close-out of grading and/or building permit. Educational Materials are not required to be included.

# Section VII Educational Materials

Refer to the Orange County Stormwater Program (ocwatersheds.com) for a library of materials available. Please only attach the educational materials specifically applicable to this project. Other materials specific to the project may be included as well and must be attached.

| Education Materials | | | |
|---|---|---|---|
| **Residential Material (http://www.ocwatersheds.com)** | **Check If Applicable** | **Business Material (http://www.ocwatersheds.com)** | **Check If Applicable** |
| The Ocean Begins at Your Front Door | ☐ | Tips for the Automotive Industry | ☐ |
| Tips for Car Wash Fund-raisers | ☐ | Tips for Using Concrete and Mortar | ☒ |
| Tips for the Home Mechanic | ☐ | Tips for the Food Service Industry | ☒ |
| Homeowners Guide for Sustainable Water Use | ☐ | Proper Maintenance Practices for Your Business | ☒ |
| Household Tips | ☐ | **Other Material** | **Check If Attached** |
| Proper Disposal of Household Hazardous Waste | ☐ | | |
| Recycle at Your Local Used Oil Collection Center (North County) | ☐ | IC 7 - Tips for Landscape Maintenance | ☒ |
| Recycle at Your Local Used Oil Collection Center (Central County) | ☐ | IC 15 - Tips for Parking and Storage Area Maintenance | ☒ |
| Recycle at Your Local Used Oil Collection Center (South County) | ☐ | IC 21 - Waste Handling and Disposal | ☒ |
| Tips for Maintaining a Septic Tank System | ☐ | IC 22 – Eating and Drinking Establishments | ☒ |
| Responsible Pest Control | ☐ | IC 23 – Fire Sprinkler Testing | ☒ |
| Sewer Spill | ☐ | | ☐ |
| Tips for the Home Improvement Projects | ☐ | | ☐ |
| Tips for Horse Care | ☐ | | ☐ |
| Tips for Landscaping and Gardening | ☐ | | ☐ |
| Tips for Pet Care | ☐ | | ☐ |
| Tips for Pool Maintenance | ☐ | | ☐ |
| Tips for Residential Pool, Landscape and Hardscape Drains | ☐ | | ☐ |
| Tips for Projects Using Paint | ☐ | | ☐ |

# Attachment A
# Watershed Area

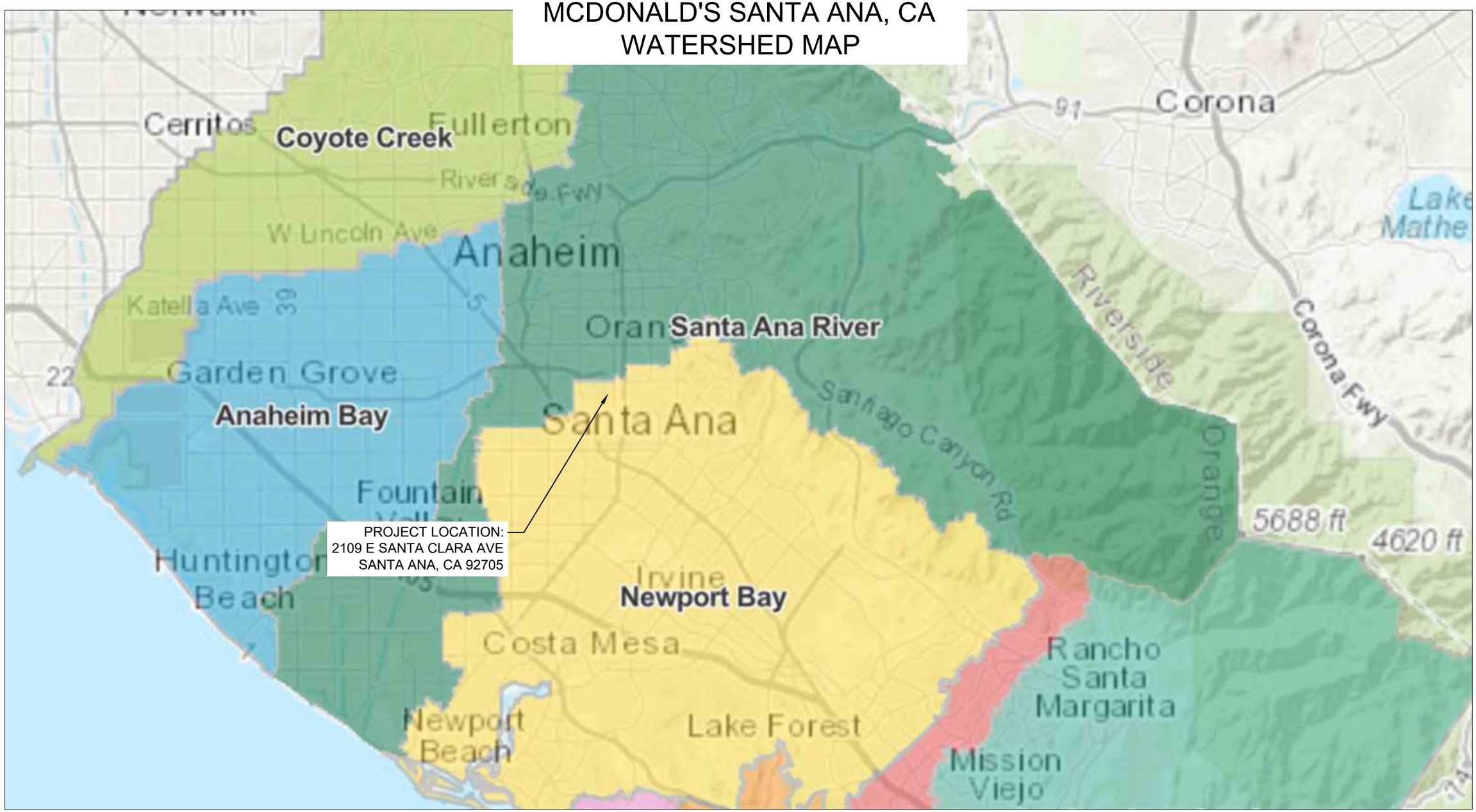
# MCDONALD'S SANTA ANA, CA
# VICINITY MAP

Kimley»Horn

© 2018 KIMLEY-HORN AND ASSOCIATES, INC.

765 THE CITY DRIVE, SUITE 200, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488

# MCDONALD'S SANTA ANA, CA
# WATERSHED MAP




Kimley»Horn

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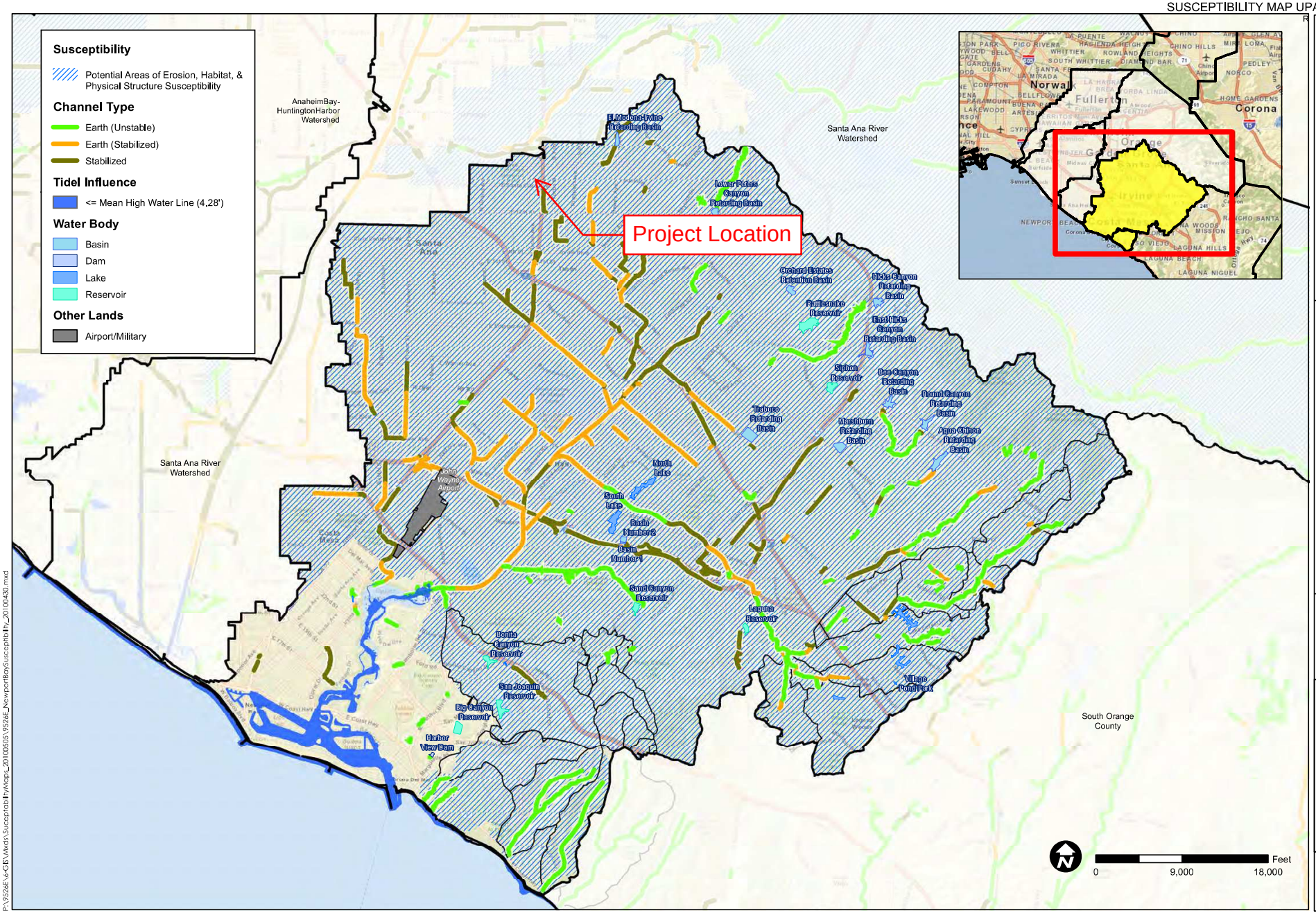
1100 TOWN AND COUNTRY ROAD, SUITE 700, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488

SUSCEPTIBILITY MAP UPATE (FEB 2013)




TITLE
SUSCEPTIBILITY ANALYS
NEWPORT BAY-
NEWPORT COASTAL STREAMS

JOB
ORANGE COUNTY
WATERSHED
MASTER PLANNING
ORANGE CO. CA

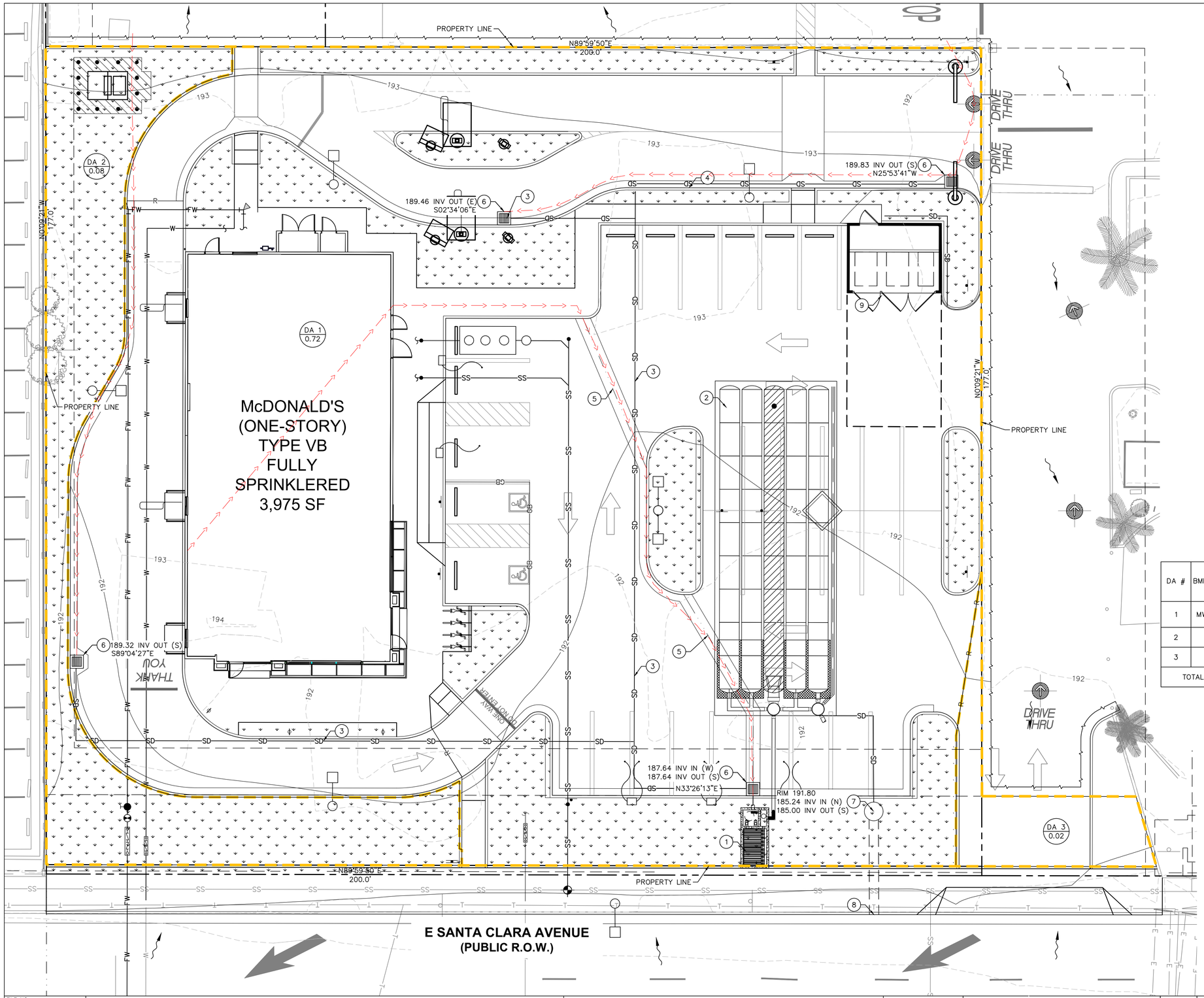
| | |
|---|---|
| SCALE | 1" = 12000' |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 04/30/10 |
| JOB NO. | 9526-E |

PACE
Advanced Water Engineering

FIGURE
4

P:\9526E\v4-GIS\Maps\Susceptibility\Maps_20100505\9526E_NewportBaySusceptibility_20100430.mxd

# Attachment B
# WQMP Site Plan




# LEGEND

- CENTER LINE
- PROPERTY LINE
- PROPOSED PROPERTY LINE
- EASEMENT LINE
- APPROXIMATE LIMITS OF DISTURBANCE
- DRAINAGE AREA BOUNDARY
- R — PROPOSED RIDGE LINE
- GB — PROPOSED GRADE BREAK LINE
- 127.00 TC / 126.50 FS — PROPOSED SPOT ELEVATION
- (127.25 TC) / (126.75 FS) — EXISTING SPOT ELEVATION
- PROPOSED FLOW LINE
- SD — PROPOSED STORMWATER LINE
- EXISTING FLOW DIRECTION
- 2.00% — PROPOSED FLOW (DIRECTION AND SLOPE)
- IMPERVIOUS SURFACE
- LANDSCAPE/PLANTER AREA

# GRADING AND DRAINAGE NOTES

1. PROPOSED ECOPURE BIOFILTER (BIO–7: PROPRIETARY BIOTREATMENT) PER DETAIL 1, SHEET 2
2. PROPOSED UNDERGROUND DETENTION SYSTEM PER DETAIL 3, SHEET 3 & 4
3. 6" SDR–35 PVC STORM DRAIN PIPE SLOPED AT 0.5% MIN.
4. CONCRETE CURB AND GUTTER.
5. CONCRETE VALLEY GUTTER.
6. 24" X 24" JENSEN PRECAST DROP INLET WITH CATCH BASIN FILTER INSERT FOR TRASH CAPTURE. (PRE–2)
7. PROPOSED PUMP PER DETAIL 4, SHEET 5
8. PROPOSED PARKWAY DRAIN
9. PROPOSED TRASH ENCLOSURE

# GENERAL NOTE:

THIS SITE WILL BE DESIGNED AND CONSTRUCTEDIN ACCORDANCE WITH THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SANTA ANA REGION ORDER NO. R8–2009–0030 DISCHARGE REQUIREMENTS (MS4 PERMIT). CONTACT MINDY LY (714) 647–5665 FOR ADDITIONAL INFORMATION

| DA # | BMP ID# | TOTAL DRAINAGE AREA (SF) | IMPERVIOUS AREA (SF) | PERVIOUS AREA (SF) | Q (CFS) | DCV (CF) | BMP PROVIDED | LATITUDE | LONGITUDE |
|---|---|---|---|---|---|---|---|---|---|
| 1 | MWS–1 | 31,150 | 26,194 | 4,956 | 0.154 | 1,638 | BIOTREATMENT SYSTEM | 33°46'02.2"N | 117°50'12.0"W |
| 2 | – | 3,602 | 0 | 3,602 | – | – | SELF TREATING | – | – |
| 3 | – | 779 | 779 | 0 | – | – | DE–MINIMUS | – | – |
| TOTAL | | 35531 | 26973 | 8558 | 0.154 | 1,638 | | | |

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20

SCALE
1" = 10'
WHEN PRINTED AT FULL SIZE
(24"X36")

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS
BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1–800–422–4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

## REVISIONS

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

## REFERENCES

BENCHMARK NO.: 3C–26–06 ELEV.: 173.744' NAVD88

THE ON–SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.

THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER HANNAH W. LUEVANO RCE NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY–HORN
1100 TOWN & COUNTRY RD.
SUITE 700
(213) 261–4040
ENGINEER OF RECORD RCE NO.: 90371

DATE 7/6/2023

# PROPOSED DRIVE–THRU RESTAURANT

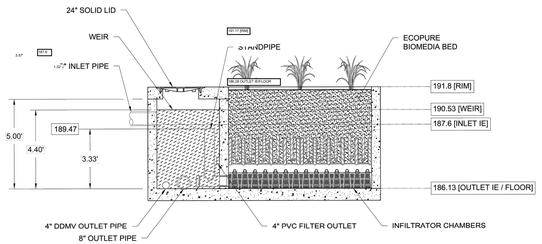
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

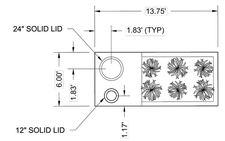
WQMP MAP

SHEET NO. 1 OF 5

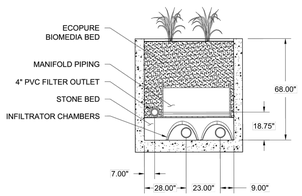
PROJECT NO. YY–NNNN: PROJECT TITLE PROJECT LIMITS



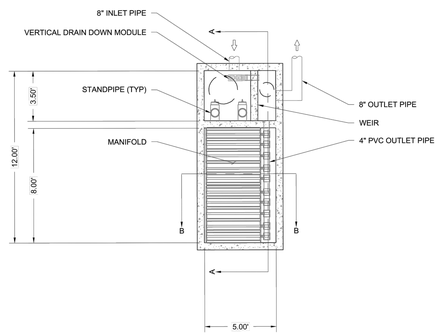

**SECTION A-A**
NTS




**TOP SLAB PLAN VIEW**
NTS / PIPE CONNECTIONS NOT SHOWN




**SECTION B-B**
NTS




**PLAN VIEW**
NTS

| ECOPURE BIOFILTER 120 | |
|---|---|
| WATER QUALITY FLOW RATE | 0.27 CFS |
| EFFECTIVE LOADING RATE | 1 GPM/SF |
| DRAINAGE AREA | |
| TREATED SEDIMENT CAPACITY | |

THE ECOPURE BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL and GREASE, TRASH AND BACTERIA. THE ECOPURE SYSTEM PROVIDES LINEAR TREATMENT DESIGN WITH AN UPFRONT PRETREATMENT CHAMBER.

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 | DRAWN: JLM
PROJECT #: S248647 | CHECKED: KLJ/PR

| DATE | DRWN CHKD | DESCRIPTION |
|---|---|---|

**EcoPure™ Biofilter**
Stormwater Media Filters

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

NOT TO SCALE

3 SHEET OF 7

THIS DRAWING IS THE PROPERTY OF ADS AND MUST BE RETURNED UPON REQUEST. TO SUBMIT THE PRODUCTION OF THIS SITE BASED ON THIS DRAWING IS TO ACCEPT THE RESPONSIBILITY TO ADS FOR ANY PATENT INFRINGEMENT, ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS DEPICTED ARE ALL ACCEPTABLE UNDER APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS. REFER TO THE DRAWING PRIOR TO CONSTRUCTION. IT IS THE

ECOPURE BIOFILTER
N.T.S.

1

ADS

June 29, 2023

Antoinette Jungers, EIT
Civil Analyst
Kimley-Horn and Associates

RE: McDonalds 4-5088 (Santa Ana)
TAPE Approval and Orange County Public Works Approval

Ms. Jungers,

ADS EcoPure BioFilter has undergone rigorous testing from Washington Department of Ecology (WaDOE), and has been reviewed and certified under the Technology Assessment Protocol – Ecology, better known as the TAPE program.

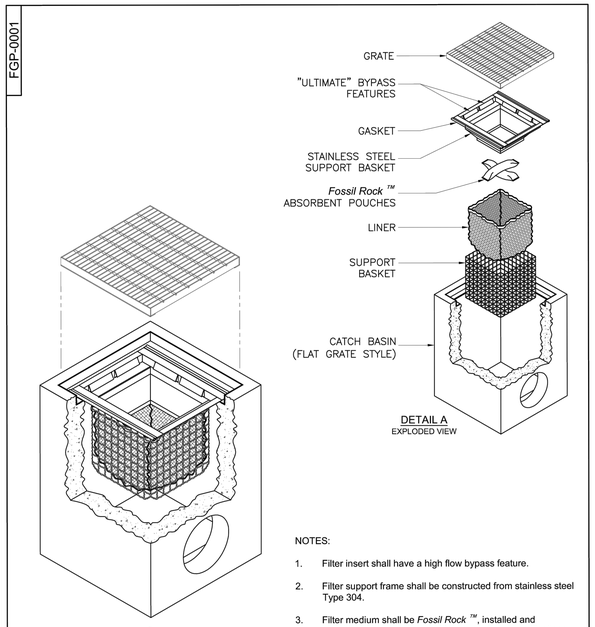
TAPE certification in Orange County and other regions of Southern California is the industry standard per the Orange County Technical Guidance Document and other storm water quality manuals. See attached for the TAPE assessment report for ADS EcoPure BioFilter

Please don't hesitate to contact an ADS representative with any questions or comments.
Regards,
Terence Zhao

Engineered Products Manager
Advanced Drainage Systems, Inc.
Mobile: (626) 425 – 2874
Email: Terence.zhao@adspipe.com

Our reason is water.™
Advanced Drainage Systems, Inc. // 4640 Trueman Boulevard, Hilliard, OH 43026 // Tel (614)658-0050 // adspipe.com

FGP-0001




DETAIL A
EXPLODED VIEW

FloGard® FILTER
-INSTALLED INTO CATCH BASIN-

U.S. PATENT # 6,00,023 & 6,877,029

NOTES:

1. Filter insert shall have a high flow bypass feature.
2. Filter support frame shall be constructed from stainless steel Type 304.
3. Filter medium shall be *Fossil Rock ™*, installed and maintained in accordance with manufacturer specifications.
4. Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

Inlet Filtration

***FloGard®***
*Catch Basin Insert Filter*
*Grated Inlet Style*

**Oldcastle®**
Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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| DRAWING NO. | REV. | ECO | DATE |
|---|---|---|---|
| FGP-0001 | G | ECO-0142 JPR 7/13/16 | JPR 11/3/06 |

SHEET 1 OF 2

24" X 24" DRAIN INLET
N.T.S.

2

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER HANNAH W. LUEVANO RCE NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY-HORN
1100 TOWN & COUNTRY RD
SUITE 700
(213) 261-4040
ENGINEER OF RECORD RCE NO.: 90371

DATE 7/6/2023

# PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705
**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA
WQMP DETAILS

SHEET NO. 2 OF 5

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

| PROJECT INFORMATION | |
|---|---|
| ENGINEERED PRODUCT MANAGER: | TRAVIS ANTONISSEN<br>949-237-8866<br>TRAVIS.ANTONISSEN@ADSPIPE.COM |
| ADS SALES REP: | MATT NOBLE<br>951-603-6551<br>MATT.NOBLE@ADSPIPE.COM |
| PROJECT NO: | S349547 |

Advanced Drainage Systems, Inc.

APPROVED BY:
SIGNED:
DATE:
COMPANY:
PHONE / EMAIL:

# MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT

SANTA ANA - CA

## CONTRACTOR PROVIDED DELIVERY SCHEDULE & SITE INFORMATION:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| SYSTEM DESIGNATION / SIZE | | | | | | | | | |
| SYSTEM DELIVERY DATE | | | | | | | | | |

***ACTUAL DATE REQUIRED, ASAP IS NOT ACCEPTABLE AND A MINIMUM OF 4 WEEKS MUST BE PROVIDED UNLESS OTHERWISE DISCUSSED WITH A SALES REPRESENTATIVE.**

| DELIVERY INFORMATION | | | |
|---|---|---|---|
| JOB SITE STREET ADDRESS | | CITY | |
| CONTACT | | CONTACT PHONE | |
| ALTERNATE CONTACT | | ALTERNATE PHONE | |

**DIRECTIONS TO JOB SITE FROM NEAREST INTERSTATE:**
(PLEASE NO MAPS)

## ADS ECOPURE SPECIFICATIONS

PRODUCTS
A. INTERNAL COMPONENTS: SHALL BE SUBSTANTIALLY CONSTRUCTED OF STAINLESS STEEL, RECYCLED POLYETHYLENE OR OTHER THERMOPLASTIC MATERIAL APPROVED BY THE MANUFACTURER

B. FILTER MEDIA/VEGETATION: FILTER MEDIA SHALL BE BY ADS AND SHALL CONSIST OF A PROPRIETARY BLEND OF FILTER MEDIA. VEGETATION IS VARIABLE DEPENDENT ON REGION. ITEMS CHOSEN SHOULD ALIGN WITH CONTROLLING MUNICIPAL, COUNTY, OR STATE REQUIREMENTS.

C. PRECAST CONCRETE VAULT: DESIGNED FOR H-20 TRAFFIC LOADING AND APPLICABLE SOIL LOADS OR AS OTHERWISE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER. THE MATERIALS AND STRUCTURAL DESIGN OF THE DEVICES SHALL BE PER ASTM C478, ASTM C857 AND ASTM C858.

PERFORMANCE
A. THE STORMWATER FILTER SYSTEM SHALL BE AN OFFLINE DESIGN CAPABLE OF TREATING 100% OF THE REQUIRED TREATMENT FLOW AT FULL SEDIMENT LOAD CONDITIONS.
B. THE STORMWATER FILTER SYSTEM SHALL HAVE NO MOVING PARTS.
C. THE STORMWATER TREATMENT UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 85% OF SUSPENDED SOLIDS AND 70% OF TOTAL PHOSPHORUS.

## ECOPURE MAINTENANCE

THE ECOPURE SYSTEM REQUIRES PERIODIC MAINTENANCE TO CONTINUE OPERATING AT ITS PEAK EFFICIENCY DESIGN. THE MAINTENANCE PROCESS COMPRISES THE REMOVAL AND REPLACEMENT OF FILTER MEDIA AND VEGETATION AND THE CLEANING OF THE VAULT WITH A VACUUM TRUCK. FOR BEST RESULTS, ECOPURE MAINTENANCE SHOULD BE PERFORMED BY A CERTIFIED MAINTENANCE CONTRACTOR. A QUICK CALL TO AN ADS ENGINEER OR CUSTOMER SERVICE REPRESENTATIVE WILL PROVIDE YOU WITH A LIST OF RELIABLE CONTRACTORS IN YOUR AREA.

WHEN ECOPURE IS INITIALLY INSTALLED, WE RECOMMEND THAT AN INSPECTION BE PERFORMED ON THE SYSTEM IN THE FIRST SIX (6) MONTHS. AFTER THAT, THE INSPECTION CYCLE TYPICALLY FALLS INTO A BIANNUAL PATTERN GIVEN NORMAL STORM OCCURRENCE AND ACTUAL SOLIDS LOADS.

WHEN ECOPURE EXHIBITS FLOWS BELOW DESIGN LEVELS, THE SYSTEM SHOULD BE INSPECTED AND MAINTAINED AS SOON AS PRACTICAL.

MAINTENANCE OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S MAINTENANCE INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADS-PIPE.COM.

## ECOPURE INSTALLATION NOTES

INSTALLATION OF THE STORMWATER TREATMENT UNIT(S) SHALL BE PERFORMED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH INSTRUCTIONS CAN BE OBTAINED BY CALLING ADVANCED DRAINAGE SYSTEMS AT (800) 821-6710 OR BY LOGGING ON TO WWW.ADS-PIPE.COM.

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ADS SiteAssist™ FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR APP


# MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT

SANTA ANA - CA


## SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

## IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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## PROPOSED LAYOUT

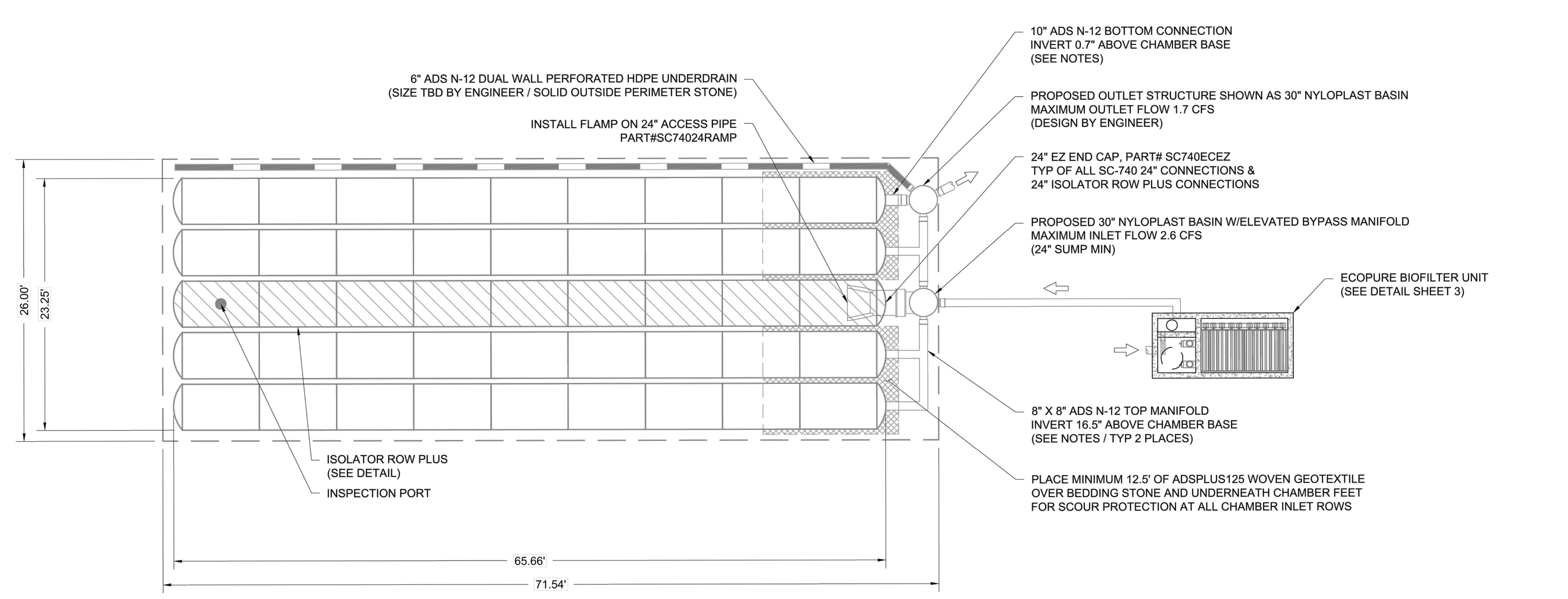
| | |
|---|---|
| 45 | STORMTECH SC-740 CHAMBERS |
| 10 | STORMTECH SC-740 END CAPS |
| 6 | STONE ABOVE (in) |
| 6 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **3,845** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 1860 | SYSTEM AREA (ft²) |
| 195 | SYSTEM PERIMETER (ft) |

## PROPOSED ELEVATIONS

| | |
|---|---|
| 196.57 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 190.57 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 190.07 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 189.07 | TOP OF STONE |
| 188.57 | TOP OF SC-740 CHAMBER |
| 187.45 | 8" TOP MANIFOLD INVERT |
| 186.13 | 10" BOTTOM MANIFOLD INVERT |
| 186.08 | 24" ISOLATOR ROW PLUS CONNECTION INVERT |
| 186.07 | BOTTOM OF SC-740 CHAMBER |
| 185.57 | UNDERDRAIN INVERT |
| 185.57 | BOTTOM OF STONE |

## NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.




MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT SANTA ANA - CA
DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR
THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ... REVIEW THIS DRAWING ... THE SITE DESIGN ENGINEER SHALL ... AND PROJECT REQUIREMENTS.

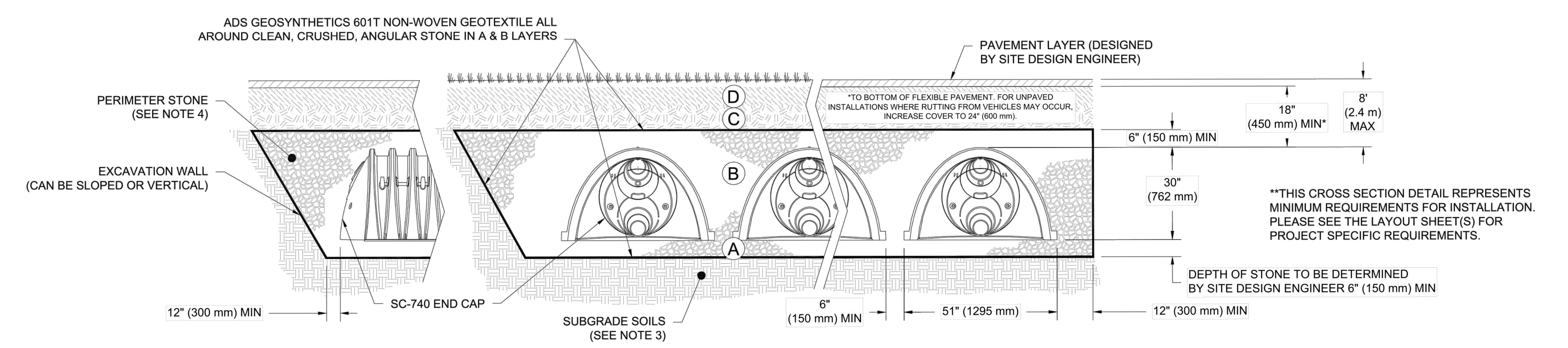
| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|
| | | | |

StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026
0 10' 20'
THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OR OTHER PROJECT REPRESENTATIVE. THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.
SHEET 4 OF 7

## ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1]<br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.




## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.


MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT SANTA ANA - CA
DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR
StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM
ADS 4640 TRUEMAN BLVD HILLIARD, OH 43026

SHEET 5 OF 7

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
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NOTICE TO CONTRACTOR
*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDERGROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

ADS STORMTECH SC-740 CHAMBER SYSTEM
N.T.S.

3

FILE NO.:

REVISIONS

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

REFERENCES

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER HANNAH M LUEVANO RCE NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY-HORN
1100 TOWN & COUNTRY RD
SUITE 700
(213) 261-4040
ENGINEER OF RECORD RCE NO.: 90371
DATE 7/6/2023

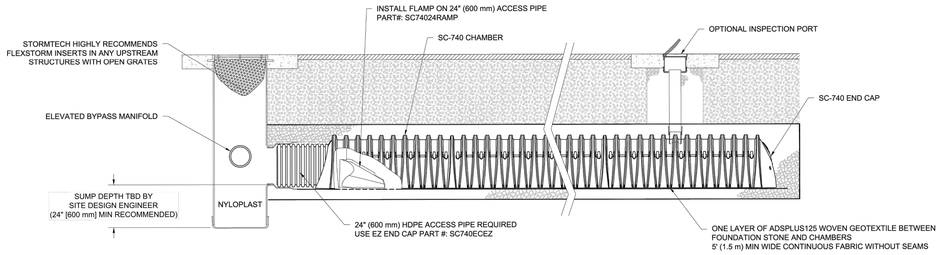
# PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

## WQMP DETAILS

SHEET NO. 3 OF 5

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




## SC-740 ISOLATOR ROW PLUS DETAIL

NTS

## INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

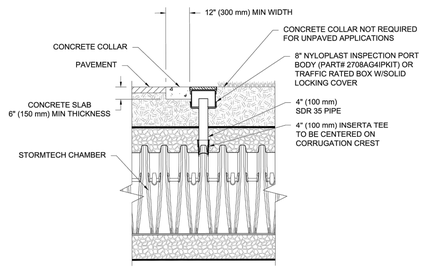
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

## NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.




NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

## 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

NTS

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 | DRAWN: JLM
PROJECT #: S346547 | CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|

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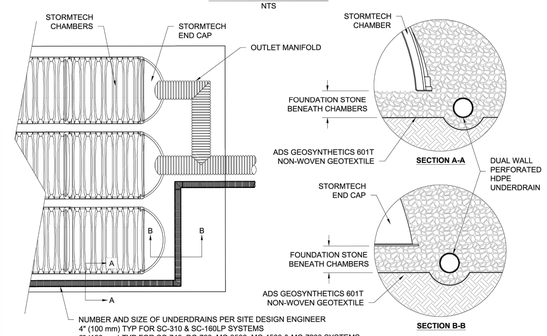
SHEET 6 OF 7

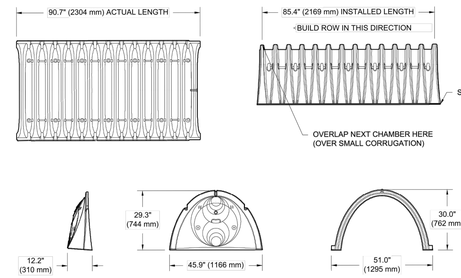
## UNDERDRAIN DETAIL

NTS




## SC-740 TECHNICAL SPECIFICATION

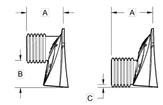
NTS




**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
| CHAMBER STORAGE | 45.9 CUBIC FEET | (1.30 m³) |
| MINIMUM INSTALLED STORAGE* | 74.9 CUBIC FEET | (2.12 m³) |
| WEIGHT | 75.0 lbs. | (33.6 kg) |

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS




PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

| PART # | STUB | A | B | C |
|---|---|---|---|---|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm) | 10.9" (277 mm) | 18.5" (470 mm) | --- |
| SC740EPE06B / SC740EPE06BPC | | | --- | 0.5" (13 mm) |
| SC740EPE08T/SC740EPE08TPC | 8" (200 mm) | 12.2" (310 mm) | 16.5" (419 mm) | --- |
| SC740EPE08B / SC740EPE08BPC | --- | | --- | 0.6" (15 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | 14.5" (368 mm) | --- |
| SC740EPE10B / SC740EPE10BPC | | | --- | 0.7" (18 mm) |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | 12.5" (318 mm) | --- |
| SC740EPE12B / SC740EPE12BPC | | | --- | 1.2" (30 mm) |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm) | --- |
| SC740EPE15B / SC740EPE15BPC | | | --- | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm) | --- |
| SC740EPE18B / SC740EPE18BPC | | | --- | 1.6" (41 mm) |
| SC740ECEZ* | 24" (600 mm) | 18.5" (470 mm) | --- | 0.1" (3 mm) |

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

MCDONALD'S 4-5088 PROPOSED
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SANTA ANA - CA

DATE: 04/17/23 | DRAWN: JLM
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SHEET 7 OF 7

ADS STORMTECH SC-740 CHAMBER SYSTEM
N.T.S.

3

Underground Service Alert
of Southern California
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NOTICE TO CONTRACTOR

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FILE NO.:

R-

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
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**REFERENCES**

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CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER
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RCE NO. 90371
CIVIL
STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY-HORN
1100 TOWN & COUNTRY RD.
SUITE 700
(213) 261-4040
ENGINEER OF RECORD RCE NO.: 90371

DATE 7/6/2023

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

## WQMP DETAILS

SHEET NO. 4 OF 5

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

**PACKAGED STORM WATER LIFT STATION**

**McDONALD'S - 2109 E. SANTA CLARA AVE - SANTA ANA, CA**

**SCOPE OF SUPPLY:**
Furnish and install complete pre-packaged duplex sewage Lift Station model **#PSI-KIM041923** as manufactured by Pacific Southwest Industries (national phone # 800-358-9095)

This pre-packaged Lift Station shall incorporate a quick removal system manufactured by the pump manufacturer. The pump(s) shall be guided to the discharge base elbow by a single or double guide rail and shall be stainless steel and shall extend from the discharge base elbow to the upper guide bracket mounted on 1-5/8" x 1-5/8" channel strut just below the basin cover. Stainless steel lifting chain or cable shall be supplied and properly installed to remove the pump from the wet well. The internal discharge piping shall be completely pre-plumbed with pressure rated schedule 40 or 80 PVC pipe as indicated and extend 12" beyond the wet well and valve vault side wall for contractor connection to the force main piping. The pump(s) discharge piping shall have a check and ball valve installed on each pump discharge. The lift station shall also include a control panel and floats.

**PUMP(S):**

The pump furnished for this application shall be model 3LEV03 as manufactured by Liberty Pumps and shall be capable of handling residential and commercial sewage up to 3" solids.

**CONSTRUCTION:**

Each centrifugal pump shall be equal to the Certified 3LEV03-Series pumps as manufactured by Liberty Pumps, Bergen NY. The casting enclosing the motor shall be constructed of class 30 cast iron. The complete motor enclosure shall be designed and manufactured to meet stringent hazardous location guidelines with performance verified via flame propagation and hydrostatic testing. The motor housing shall be oil-filled to dissipate heat. Air-filled motors shall not be considered equal since they do not properly dissipate heat from the motor. Mating parts shall be machined and sealed with a Buna-N O-ring. All fasteners exposed to the process fluid shall be stainless steel. The motor shall be protected on the top side with a sealed cast iron cord entry plate, which is potted to prevent water from entering through the cord. The motor shall be protected on the lower side with a dual mechanical seal arrangement and an oil-filled intermediate chamber. The upper seal shall be a unitized mechanical seal with silicon carbide faces. The lower seal shall be a two-piece mechanical seal with silicon carbide faces. The upper and lower bearings shall be sized to properly withstand radial and thrust loads produced throughout the full operating range of the pump.

**POWER CABLE:**

The submersible pump shall be supplied with 25, 35, or 50 feet of a multi-conductor cord of type SOOW. These type SOOW power cords carry a voltage rating of 600 V, a temperature rating of 90°C, have oil-resistant insulation, are water- and weather-resistant, UL listed, and CSA approved. The power cord shall be sized for the rated full load amps of the pump for continuous duty in accordance with the NEC®. A separate type SOOW control cord of equal length shall also exit the pump. The cord entries to the pump shall be protected via two sealing methods. The cords first pass through a Buna-N compression grommet that seals against the outer jacket of the cable. The Buna-N grommet also doubles as a strain relief. Each individual conductor then continues into a chamber that is filled with epoxy potting compound. The epoxy potting compound seals each individual conductor and protects against any intrusion of liquid into the motor cavity in the event of wicking.

**MOTOR:**

The motor shall be oil-filled, Class F insulated, and rated for continuous duty. Since air-filled motors are not capable of dissipating heat efficiently, they shall not be considered equal. Pumps requiring an auxiliary cooling means shall not be considered equal. The copper stator windings shall be insulated with moisture-resistant Class F insulation materials, rated for 155°C. The maximum continuous temperature of pumped liquids shall be 40°C. The winding operating temperature at rated horsepower shall be a maximum of 140°C @ 40°C ambient. Motor shall have thermal protector on 1-phase model 3LEV032 to cut power to motor in thermal overheat conditions.

**BEARINGS AND SHAFT:**

The shaft shall be supported by two ball bearings. The top bearing shall be a radial contact ball bearing and the lower bearing shall be an angular contact ball bearing designed to handle the radial and axial forces incurred by pumping/grinding. The lower bearing shall be positively retained by a threaded bearing retaining nut, which eliminates any axial movement or rotation of the outer bearing race. Both bearings shall be permanently lubricated by the oil that fills the motor housing. Pump designs requiring scheduled bearing maintenance shall not be considered equal. Pumps with single row lower bearings or sleeve bearings shall not be considered equal. The bearing system shall be sized to provide a minimum of 100,000 hours B10 bearing life throughout the operating range of the pump. Pumps that only provide a 50,000 hour B10 bearing life shall not be considered equal. The motor shaft shall be made of 303 stainless steel. The shaft shall be designed to withstand the maximum torque and radial loads present during start-up and normal operation. Shafts of carbon steel or chrome-plated shafts shall not be considered equal.

**SEALS:**

The pump shall have one shaft seal. Seal shall include stainless steel housings and Buna elastomers.

**IMPELLER:**
The impeller shall be ASTM class 30 cast iron, with optional silicon bronze material available. A vortex impeller design provides an efficient path through the impeller for solids to pass without getting caught or snagged. Impeller shrouds are designed to operate in close proximity to the pump volute casing to prevent solids from entering the seal area or recirculating back to the intake. The impeller shall be keyed and bolted onto the motor shaft.

**QUICK REMOVAL SYSTEM:**

The pumping unit(s) shall be equipped with quick removal system (QRS). The construction shall be such that the pump(s) will automatically connect to the discharge piping when lowered into place on the discharge connector. There shall be no need for personnel to enter the wet well to accomplish installation or removal of the pump(s). The pumping unit(s) shall be fitted with stainless steel lifting chain(s) of sufficient length and strength to permit the raising and lowering of the unit(s). The chain(s) shall be fastened at the top of the structure near the access opening. A sliding guide bracket shall be an integral part of the pumping unit and the pump casing shall have a machined connection with a bracket to connect with the discharge connection. Sealing of the pumping unit to the discharge connection shall be accomplished by a single linear downward motion of the pump with the entire weight of the pumping unit guided by a pawl, thereby wedging the pumping unit tightly against the discharge connector. No portion of the pump shall bear directly on the floor of the sump nor shall a rotary motion of the pump be required for sealing. All fasteners coming into contact with the pumpage shall be stainless steel. Two corrosion resistant guide pipes shall be furnished and installed for each pump to permit raising and lowering of the pump. Guide pipes shall be 1.25" inch (33 mm) in diameter and shall be of adequate length to extend from the lower guide holder to the upper guide bar bracket(s) mounted on the access frame.

**FIBERGLASS WET WELL:**

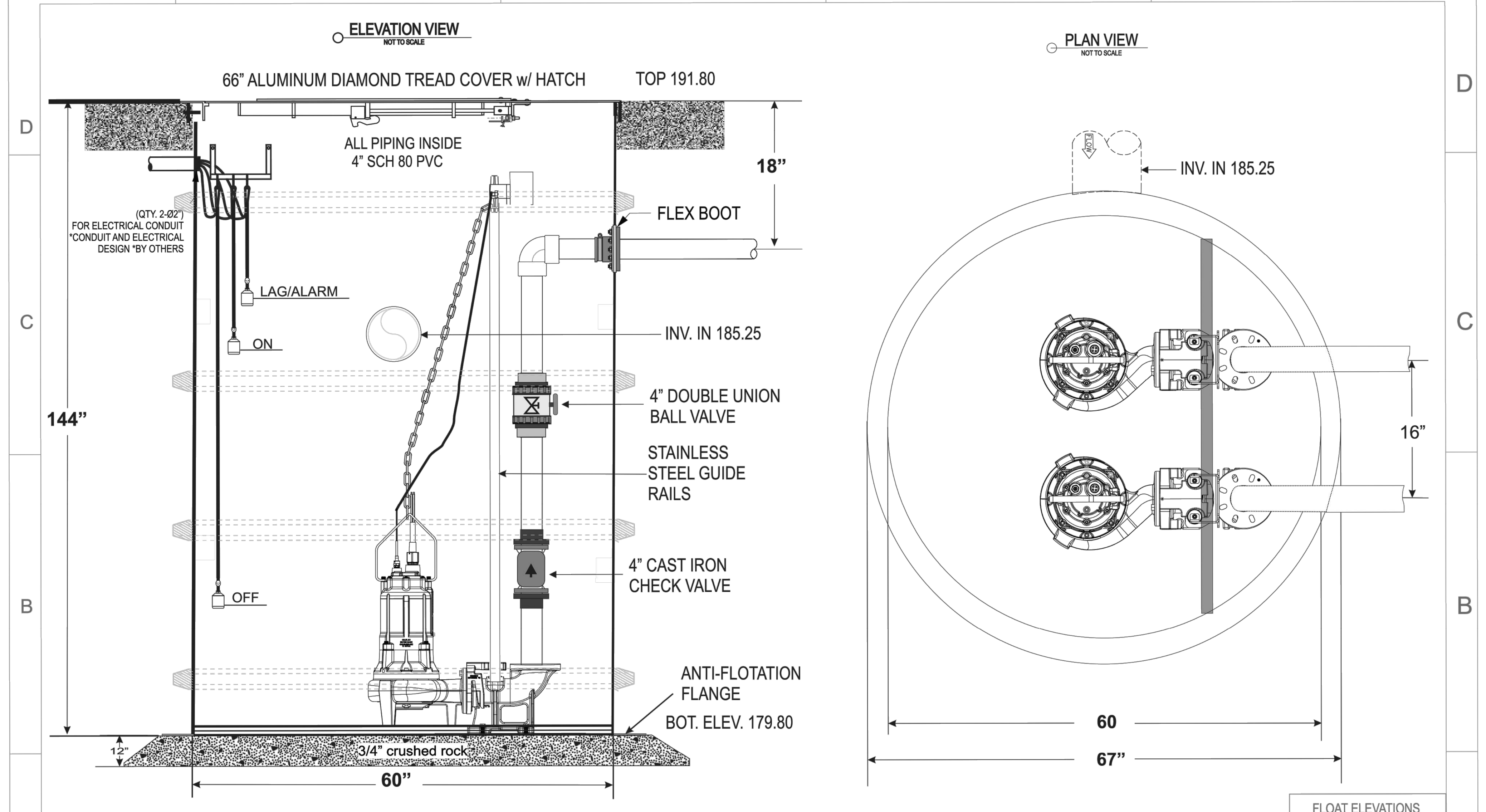
The fiberglass wet well with an anti-flotation flange shall have the proper diameter and depth below the lowest inlet to promote proper cycling while maintaining the rim at grade. The fiberglass wet well shall be manufactured using a process that is filament wound and or chopped spray. The wet well shall be constructed with a anti flotation flange. Lifting lugs shall be required for those wet wells 48 inches in diameter and larger for setting of the wet well. The laminate shall have a Barco hardness of at least 90% of the resin manufactures minimum specified hardness for cured resin on both the interior and exterior surfaces. The minimum wall thickness of the wet well shall not be less than 1/4". Stainless steel studs will be encapsulated in the bottom of the wet well to allow the mounting of the quick removal system. The top rim flange will be a minimum of 2" wide to allow for the installation of the pedestrian rated aluminum cover to the rim flange or shall be rimless if the cover is specified for H20 off street locations. The wet well shall be provided with "unseal" fittings that can be installed in the field to insure proper elevation of the inlet, vent, and electrical on the side of the wet well. The wet well will house 2 - swing check valves, and 2 – shut off valves.

**COVER(s)**

The wet well cover shall always be gasketed and bolted to the rim flange of the fiber glass tank using 7/16" stainless steel hex head bolts unless the cover is to be in a H20 off street location. The type of material to be used for the cover shall be as indicated on this plan sheet.

**DUPLEX ALTERNATING CONTROL PANEL:**

The duplex control panel, as a minimum, shall include the appropriate enclosure type for the environment it is to be installed in and should include the following: Motor starters, motor circuit protectors or variable frequency drives (VFD), pump run indicator light(s), operation selector switch(es), high water alarm and light, silence switch, dry contact for alarm, numbered terminals for all incoming power, pump motor(s) and level controls. The control panel shall be UL listed 508 or 913.




| FLOAT ELEVATIONS | |
|---|---|
| LAG/ALARM | 185.25 |
| ON | 184.25 |
| OFF | 181.00 |

PSI Pacific Southwest Industries
ENGINEERED- PUMPS/FLUID HANDLING & DISPOSAL SYSTEMS
DUPLEX
PACKAGED LIFT STATION
(800)-358-9095

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Liberty Pumps
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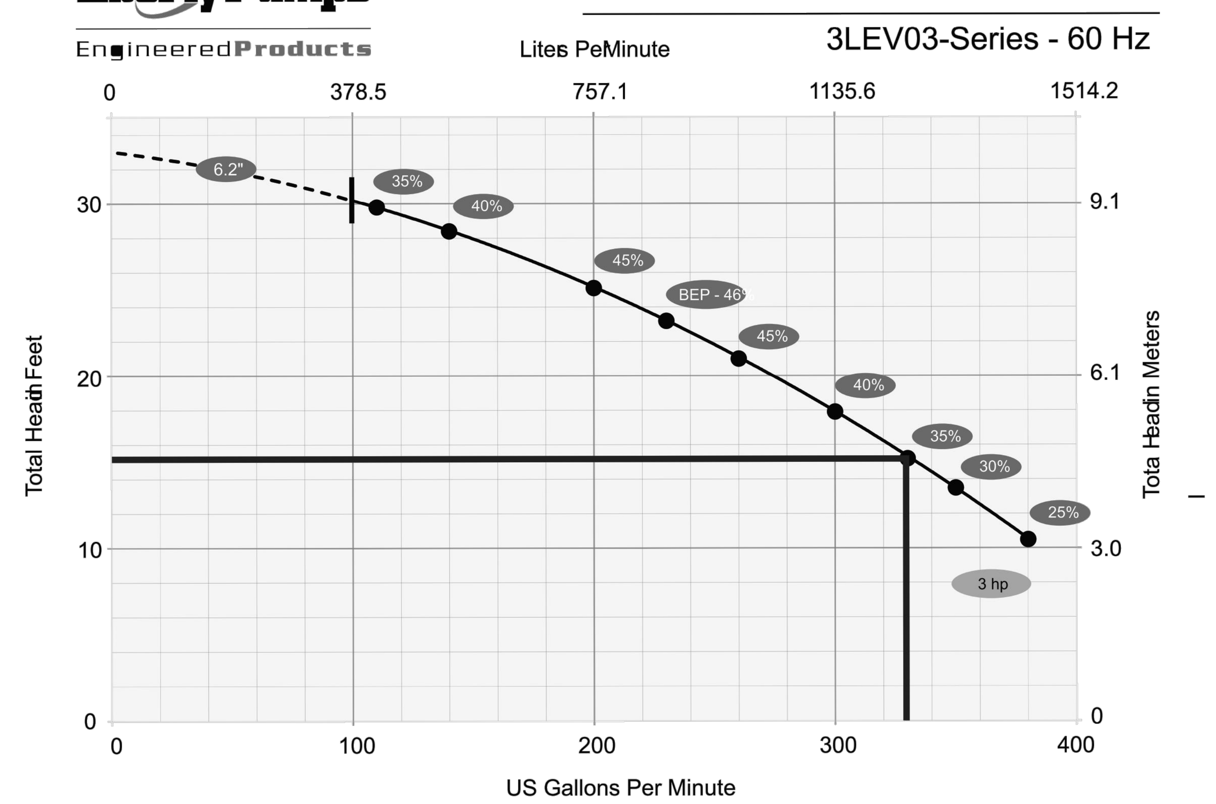
Performance Curve

3LEV03-Series - 60 Hz




| HAZEN-WILLIAMS EQUATION/HEAD LOSS IN WATER PIPE | |
|---|---|
| $(f) = 0.2083\ (100 / c)^{1.852}\ q^{1.852} / dh^{4.8655}$ | |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 4" SCH 80 = 3.83 |
| 4" FRICTION LOSS PER 100 FT = | 7.50 |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 6" SCH 80 = 5.76 |
| 6" FRICTION LOSS PER 100 FT = | 1.03 |
| Velocity (ft/s) | 4.07 |

| STORM LIFT STATION PROFILE & CALCULATIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4" SCH 40 = 4.03 SCH 80 = 3.83 | | | | | | | |
| 4" PVC PIPE | (QTY) | 12 | x | 1 | FT | | 12 FT |
| 4" PVC 90 ELBOW | (QTY) | 1 | x | 11 | FT | | 11 FT |
| 4" PVC 45 BEND | (QTY) | 0 | x | 5 | FT | | 0 FT |
| 4" PVC TEE | (QTY) | 0 | x | 21 | FT | | 0 FT |
| 4" BALL VALVE | (QTY) | 1 | x | 2.7 | FT | | 2.7 FT |
| 4" CHECK VALVE | (QTY) | 1 | x | 22 | FT | | 22 FT |
| TOTAL EQUIVALENT LENGTH | | | | | | | 47.7 FT |
| FRICTION LOSS PER 100 FT 4" PVC | 330 GPM | 7.50 FT | | | | PER 100 FT | |
| FRICTION LOSS 4" | 47.7 | / | 100 | x | 7.50 | FT | 3.58 FT |
| 6" SCH 40 = 6.06 SCH 80 = 5.76 | | | | | | | |
| 6" PVC PIPE | (QTY) | 20 | x | 1 | FT | | 20 FT |
| 6" PVC 90 ELBOW | (QTY) | 1 | x | 16 | FT | | 16 FT |
| 6" PVC 45 BEND | (QTY) | 0 | x | 7.7 | FT | | 0 FT |
| 6" PVC TEE | (QTY) | 0 | x | 33 | FT | | 0 FT |
| TOTAL EQUIVALENT LENGTH | | | | | | | 36 FT |
| FRICTION LOSS PER 100 FT 6" PVC | 330 GPM | 1.03 FT | | | | PER 100 FT | |
| FRICTION LOSS 6" | 36 | / | 100 | x | 1.03 | FT | 0.37 FT |
| TOTAL DYNAMIC HEAD | | | | | | | |
| 4" FRICTION LOSS | | | | | | | 3.58 FT |
| 6" FRICTION LOSS | | | | | | | 0.37 FT |
| COMBINED 4" AND 6" FRICTION LOSS | | | | | | | 3.95 FT |
| STATIC HEAD | | | | | | + | 11.05 FT |
| PERFORMANCE | 330 GPM | @ | 15.00 | | | FT TDH THROUGH 6" PVC LINE | |

STORM WATER PUMP SYSTEM DETAILS

NOTE: VERIFY ALL ELVEATIONS PRIOR TO FABRICATION. OTHERS TO VERIFY ALL INLET/OUTLET ORIENTATIONS PRIOR TO FABRICATION AND INSTALLATION. *ALL PIPE OPENINGS AND SEALING SHALL BE COMPLETED IN FIELD BY OTHERS.

PSI Pacific Southwest Industries
ENGINEERED- PUMPS/FLUID HANDLING & DISPOSAL SYSTEMS
18541 COLLIER AVE. , LAKE ELSINORE, CA 92530 PH: 800 358-9095

| No. | Date | Description |
|---|---|---|
| | | |

LIFT STATION DETAILS
McDONALD'S
2109 E. SANTA CLARA AVE
SANTA ANA, CA

| | |
|---|---|
| Date: | 04/19/23 |
| Drawn by: | DM |
| Checked by: | |
| Scale: NTS | |
| Sheet No. | 1 OF 1 |

**LSD-1**

PSI DUPLEX PACKAGED LIFT STATION
N.T.S.

4

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDERGROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

REGISTERED PROFESSIONAL ENGINEER HANNAH M LUEVANO RCE NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO, P.E.
KIMLEY-HORN
1100 TOWN & COUNTRY RD
SUITE 700
(213) 261-4040
ENGINEER OF RECORD RCE NO.: 90371

DATE 7/6/2023

PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

WQMP DETAILS

SHEET NO. 5 OF 5

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

# Attachment C
# Grading and Detail Sheets

# ON-SITE IMPROVEMENT PLANS

FOR

# McDONALD'S USA, LLC

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

## PROJECT TEAM


DEVELOPER
CHRISTINE CHO
MCDONALDS USA, LLC
18565 JAMBOREE ROAD, STE. 850
IRVINE, CA 92612
(657) 259-2912
CHRISTIN.CHO@US.MCD.COM

ARCHITECT
JESSICA STEINER, AIA, LEED AP
BICKEL GROUP ARCHITECTURE
3600 BIRCH STREET, SUITE 120
NEWPORT BEACH, CA 92660
(949) 757-0411
JSTEINER@BICKELGRP.COM

GEOTECHNICAL
NADIM SUNNA, MS, PE, GE
UNIVERSAL ENGINEERING SCIENCES
16 TECHNOLOGY DRIVE, SUITE 139
IRVINE, CA 92618
(949) 537-3222

SURVEYOR
JOHN F. BRANHAM
ATLAS GEOSPATIAL
2191 EL CAMINO REAL, SUITE 120
OCEANSIDE, CA
(888) 364-1973

CIVIL ENGINEER
HANNAH LUEVANO, PE
KIMLEY-HORN AND ASSOCIATES, INC.
1100 TOWN AND COUNTRY ROAD, SUITE 700
ORANGE, CA 92868
(714) 786-6338
HANNAH.LUEVANO@KIMLEY-HORN.COM


## UTILITY PURVEYORS

WATER & ELECTRIC
CITY OF SANTA ANA:
WATER SERVICES
20 CIVIC CENTER PLAZA
SANTA ANA, CA 92701
(714) 647-5454

ELECTRICITY
SOCAL EDISON:
1325 S GRAND AVE
SANTA ANA, CA 92705
(800) 655-4555

GAS
SOUTHERN CALIFORNIA GAS COMPANY
738 HARBOR BLVD
SANTA ANA, CA 92704
(800) 427-2200

## BENCHMARK NOTE

THE OFF-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, BENCHMARK USED IS ORANGE COUNTY PUBLIC WORKS SURVEY SECTION, DESIGNATION SA-268-70. BEING A FOUND 3 3/4" OCS ALUMINUM BENCHMARK DISK STAMPED "SA-268-70", SET IN THE WESTERLY END OF A CIRCULAR CATCH BASIN. MONUMENT IS LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION OF TUSTIN AVENUE AND SANTA CLARA AVENUE, 77.5 FT WESTERLY OF THE CENTERLINE OF TUSTIN AVENUE AND 33.5 FT NORTHERLY OF THE CENTERLINE OF SANTA CLARA AVENUE. MONUMENT IS SET LEVEL WITH THE SIDEWALK. ELEVATION 190.612 FEET.

THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION= 193.65 FEET.

## BASIS OF BEARINGS NOTE

BEING THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

## LEGAL DESCRIPTION PER TITLE REPORT

PARCEL A: APN: 396-261-30, APN: 396-261-31, APN: 396-261-32
THAT PORTION OF LOT 8 IN BLOCK A OF THE A. B. CHAPMAN TRACT, IN THE CITY OF SANTA ANA, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS SHOWN ON A MAP RECORDED IN BOOK 102, PAGE 15 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

PARCEL 2, IN THE CITY OF SANTA ANA, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 28, PAGE 46 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL B: APN: 396-261-26, APN: 396-261-33 THROUGH APN: 396-261-38
PARCELS 1, 2 AND 3 AS SHOWN ON A MAP FILED IN BOOK 12, PAGE 16 OF PARCEL MAPS, IN THE CITY OF SANTA ANA, OFFICE OF THE COUNTY RECORDER OF ORANGE COUNTY, CALIFORNIA.

## CITY GRADING NOTES

1. ALL GRADING SHALL COMPLY WITH THE LATEST CBC CHAPTERS 18 AND 33, AND APPENDIX J AND THE SANTA ANA MUNICIPAL CODE. A CITY GRADING PERMIT IS REQUIRED FOR GRADING.

2. GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING THE CITY GRADING INSPECTOR. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE STARTING OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, GEOTECHNICAL ENGINEER, GRADING INSPECTOR AND WHEN REQUIRED, THE ARCHAEOLOGIST AND PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THIS MEETING.

3. AN APPROVED COPY OF THE GRADING PLANS SHALL BE ON THE PERMITTED SITE WHILE WORK IS IN PROGRESS.

4. THE DESIGN CIVIL ENGINEER SHALL BE AVAILABLE DURING THE GRADING TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CODE AND ANY SPECIAL CONDITIONS OF THE PERMIT WITHIN HIS PURVIEW.

5. THE GEOTECHNICAL ENGINEER SHALL PERFORM PERIODIC INSPECTIONS AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING. THE COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL INDICATE THE TYPE OF FIELD TESTING PERFORMED. EACH TEST SHALL BE IDENTIFIED WITH THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE OR DRIVE RING, AND SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES BY THE FIELD TECHNICIAN.

6. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (2:1) EXCEPT WHERE SPECIFICALLY APPROVED OTHERWISE.

7. FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM OF 90% RELATIVE DENSITY. AGGREGATE BASE FOR ASPHALTIC AREAS SHALL BE COMPACTED TO MINIMUM OF 95% RELATIVE DENSITY. MAXIMUM DENSITY SHALL BE DETERMINED BY UNIFORM BUILDING CODE STANDARD NO. 70-1 OR APPROVED EQUIVALENT, AND FIELD DENSITY BY UNIFORM CODE STANDARD NO. 70-2 OR APPROVED EQUIVALENT.

8. THE CONTRACTOR SHALL NOT CREATE ANY TRENCH OR EXCAVATION 5-FEET OR MORE WITHOUT THE NECESSARY PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY.

9. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE GEOTECHNICAL ENGINEER TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE GEOTECHNICAL ENGINEER SHALL SUBMIT A RECOMMENDED TREATMENT TO THE CITY ENGINEER FOR APPROVAL.

10. THE PERMITTEE IS RESPONSIBLE FOR DUST CONTROL MEASURES. WATER ACTIVE SITES AT LEAST TWICE DAILY.

11. THE LOCATING AND PROTECTION OF ALL EXISTING UTILITIES IS THE RESPONSIBILITY OF THE PERMITTEE.

12. GRADING OPERATIONS, INCLUDING MAINTENANCE OF EQUIPMENT, WITHIN ONE-HALF (1/2) MILE OF A STRUCTURE OF HUMAN OCCUPANCY SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 8:00 P.M. AND 7:00 A.M. ON WEEKDAYS, INCLUDING SATURDAY, OR ANY TIME ON SUNDAY OR A FEDERAL HOLIDAY. (CITY OF SANTA ANA MUNICIPAL CODE SECTION 18-314)

13. THE PERMITTEE SHALL GIVE REASONABLE NOTICE TO THE OWNER OF ADJOINING LANDS AND BUILDINGS PRIOR TO BEGINNING EXCAVATIONS, WHICH MAY AFFECT THE LATERAL AND SUBJACENT SUPPORT OF THE ADJOINING PROPERTY. THE NOTICE SHALL STATE THE INTENDED DEPTH OF EXCAVATION AND WHEN EXCAVATION COMMENCES. THE ADJOINING OWNER SHALL BE ALLOWED AT LEAST 30 DAYS AND REASONABLE ACCESS ON THE PERMITTED PROPERTY TO PROTECT HIS STRUCTURE, IF HE SO DESIRES, UNLESS OTHERWISE PROTECTED BY LAW.

14. ALL EXISTING DRAINAGE COURSES THROUGH THE SITE SHALL REMAIN OPEN TO HANDLE THE STORM WATER; HOWEVER, IN ANY CASE, THE PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRUCTING NATURAL DRAINAGE PATTERNS.

15. APPROVED EROSION PROTECTION DEVICES SHALL BE PROVIDED AND MAINTAINED DURING THE RAINY SEASON AND SHALL BE IN PLACE AT THE END OF EACH DAY'S WORK. PROPER EROSION CONTROL MEASURES MUST BE SHOWN ON THE PLANS.

16. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITES. DISCHARGES OF MATERIAL OTHER THAN STORM WATER ARE ALLOWED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR 117 AND 302.

POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLES/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPERCHLORINATED POTABLE WATER LINE FLUSHINGS.

DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.

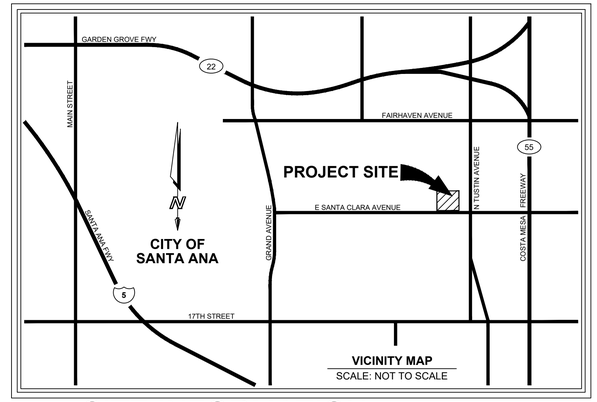
17. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.

18. ALL DIRT, SAND, MUD, OR DEBRIS DEPOSITED OR SPILLED UPON PUBLIC STREETS DURING ANY GRADING, HAULING, OR EXPORT OPERATIONS SHALL BE IMMEDIATELY CLEANED UP BY THE DEVELOPER, HIS CONTRACTOR, SUBCONTRACTORS, OR AGENTS TO THE SATISFACTION OF THE CITY ENGINEER. FAILURE TO DO SO WILL BE CAUSE FOR STOPPING ALL SUCH GRADING, HAULING, OR EXPORT WORK BY THE CITY UNTIL SUCH TIME AS THE STREETS ARE CLEANED.

19. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN A LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.

20. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OF ALL DAMAGES TO PUBLIC PROPERTIES THAT ARE CAUSED BY THE WORK ON-SITE. REPAIR MUST BE COMPLETED TO THE SATISFACTION OF THE CITY ENGINEER.

21. MINIMUM ASPHALT PAVEMENT SECTIONS SHALL BE:
    - 3"AC/6"AB – PARKING AISLES
    - 4"AC/8"AB – DRIVES [COMMERCIAL]
    - 4"AC/12"AB – DRIVES [INDUSTRIAL]
    - 3"A.C. OVER 4"A.B. – PARKING STALLS [MULTI-FAMILY]
    - 3"A.C. OVER 8"A.B. – DRIVE AISLES [MULTI-FAMILY]




VICINITY MAP
SCALE: NOT TO SCALE

## SITE INFORMATION

| | |
|---|---|
| SITE ADDRESS: | 2109 E SANTA CLARA AVENUE<br>SANTA ANA, CA 92705 |
| PROJECT DESCRIPTION: | DEMOLITION OF EXISTING BUILDINGS AND NEW CONSTRUCTION OF A MCDONALD'S DRIVE THRU RESTAURANT AND PARKING LOT. |
| ZONING DISTRICT: | A1-GENERAL AGRICULTURAL (EXISTING)<br>C5-ARTERIAL COMMERCIAL (PROPOSED) |
| LAND USE: | GENERAL COMMERCIAL |
| EXISTING USE: | RESIDENTIAL |
| PARKING SPACES: | 32 |

## GEOTECHNICAL REPORT

THE MCDONALD'S RESTAURANT (4-5088) GEOTECHNICAL ENGINEERING REPORT DATED NOVEMBER 4, 2021 PREPARED BY UNIVERSAL ENGINEERING SCIENCES, REPORT 4230.2100035.0000 AND ALL ADDENDA SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS.

## EARTHWORK NOTES

THE EARTHWORK QUANTITIES ABOVE ARE FOR PERMIT PURPOSES ONLY. THE CONTRACTOR IS NOT AUTHORIZED TO USE THE ESTIMATES HEREIN FOR BIDDING AND CONSTRUCTION PURPOSES WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD. NO REPRESENTATIONS OF SUCH QUANTITIES OR A BALANCED SITE CONDITION ARE MADE BY THE ENGINEER OF RECORD.

UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE ABOVE QUANTITIES ARE APPROXIMATE, IN PLACE VOLUMES CALCULATED FROM THE EXISTING GROUND TO THE PROPOSED FINISHED GRADE. EXISTING GROUND IS DEFINED BY THE CONTOURS AND SPOT GRADES ON THE BASE SURVEY. PROPOSED FINISHED GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN(S) AS FINISHED GROUND, FINISHED SURFACE, AND FINISHED FLOOR ELEVATIONS.

UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE ABOVE GRADING QUANTITIES HAVE NOT BEEN FACTORED TO ACCOUNT FOR CHANGES IN VOLUME DUE TO BULKING, CLEARING AND GRUBBING, SHRINKAGE, SUBSIDENCE, OVER-EXCAVATION AND RE-COMPACTION, AND CONSTRUCTION METHODS. NOR DO THEY ACCOUNT FOR THE THICKNESS OF PAVEMENT SECTIONS, STORMWATER QUALITY MEDIA SECTIONS, UTILITY PIPES, TRENCHING AND BEDDING MATERIALS, BUILDING OR WALL FOOTINGS, BUILDING SLAB THICKNESSES AND UNDERLYING BASE OR SAND LAYERS, REUSE OF PULVERIZED MATERIALS THAT WILL UNDERLIE NEW PAVEMENTS, ETC.

ANY OVEREXCAVATION AND RECOMPACTION DEPTHS AND VOLUMES, SHRINKAGE FACTORS, PAVEMENT SECTIONS, BUILDING PAD SECTIONS, AND BULKING FACTORS ARE BASED ON A SEPARATE GEOTECHNICAL REPORT. ANY BUILDING SLAB THICKNESSES ARE BASED ON THE SEPARATE BUILDING STRUCTURAL ENGINEERING PLANS. ANY UTILITY, STORMWATER MITIGATION, AND FOOTING SPOILS ARE BASED ON ESTIMATES PROVIDED BY THE OWNER OR CONTRACTOR.

22. EARTHWORK VOLUMES:
    CUT 172 CUBIC YARDS
    FILL 377 CUBIC YARDS
    NET 205 CUBIC YARDS

23. IF THE NET VOLUMES EXCEED 500 CUBIC YARDS, THE CONTRACTOR MUST SUBMIT A HAUL TRUCK ROUTE TO THE CITY FOR APPROVAL. HAUL ROUTE SHALL INCLUDE THE LOCATION OF BORROW AND/OR DISPERSAL SITE, ALL STREETS INCLUDED IN THE ROUTE, THE PROPOSED STAGING AREA AND THE MAXIMUM GROSS WEIGHT OF THE TRUCKS WHEN LOADED.

24. SUBMIT AN 8 ½"X 11"HAUL ROUTE MAP OF APPROPRIATE SCALE WHICH INDICATES THE LOCATION OF THE PROJECT SITE, SHOWING STREETS AND DIRECTION OF HAULING UP TO AND INCLUDING THE END OF THE ROUTE.

25. PURSUANT TO ASSEMBLY BILL 3019, NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDERGROUND SERVICE ALERT"(1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.

26. SEPARATE PERMITS MUST BE OBTAINED FROM THE CITY BUILDING AND SAFETY DIVISION FOR THE CONSTRUCTION OF RETAINING WALLS, LIGHT POLES, TRASH ENCLOSURES, ON-SITE PLUMBING AND ALL BUILDING STRUCTURES.

27. ALL FONTS ON PLANS SHOULD BE A MINIMUM OF 0.1".

## LEGEND

CENTER LINE
PROPERTY LINE
RIGHT-OF-WAY LINE / LEASE LINE
EASEMENT / SETBACK LINE
APPROXIMATE CIVIL LIMIT OF WORK
GB — GRADE BREAK LINE
R — RIDGE LINE
SS — PROPOSED SANITARY SEWER PIPE
SD — PROPOSED STORM DRAIN PIPE
W — PROPOSED DOMESTIC WATER PIPE
FW — PROPOSED FIRE WATER PIPE
G — PROPOSED GAS LINE
E — PROPOSED ELECTRICAL CONDUIT
T — PROPOSED TELECOMMUNICATION CONDUIT
FLOW LINE
POINT OF CONNECTION (@ BLDG)
POINT OF CONNECTION (TO EXISTING)
PROPOSED SEWER CLEANOUT
PROPOSED BACKFLOW PREVENTOR
PROPOSED WATER LINE BEND WITH THRUST BLOCK
617.50 TC / 617.00 FS — PROPOSED SPOT GRADE
(615.50 TC) / (615.00 FS) — EXISTING SPOT GRADE
2.2% — PROPOSED FLOW (DIRECTION AND SLOPE)
PROPOSED LANDSCAPE AREA
HEAVY DUTY CONCRETE PAVEMENT
STANDARD DUTY CONCRETE PAVEMENT
STANDARD DUTY ASPHALT PAVEMENT
HEAVY DUTY ASPHALT PAVEMENT
DETECTABLE WARNING (TRUNCATED DOMES)
BIORETENTION / BIOFILTRATION AREA

## ABBREVIATIONS

| | |
|---|---|
| AB | – AGGREGATE BASE |
| AC | – ASPHALT |
| BC | – BACK OF CURB |
| BS | – BOTTOM OF STEP |
| BLDG | – BUILDING |
| BW | – BACK OF WALK |
| CB | – CATCH BASIN |
| CF | – CURB FACE |
| C/L | – CENTERLINE |
| CONC. | – CONCRETE |
| CONST. | – CONSTRUCT, CONSTRUCTION |
| DF | – DEEPENED FOOTING |
| DI | – DRAIN INLET |
| DW | – DOMESTIC WATER |
| E | – EAST |
| EG | – EDGE OF GUTTER |
| ELEC | – ELECTRIC |
| EP | – EDGE OF PAVEMENT |
| FF | – FINISHED FLOOR |
| FG | – FINISHED GRADE |
| FL | – FLOW LINE |
| FS | – FINISHED SURFACE |
| FW | – FIRE WATER |
| G | – GAS |
| GB | – GRADE BREAK |
| HP | – HIGH POINT |
| INV | – INVERT |
| IRR | – IRRIGATION WATER |
| JS | – JUNCTION STRUCTURE |
| LP | – LOW POINT |
| MH | – MANHOLE |
| N | – NORTH |
| PCC | – PORTLAND CEMENT CONCRETE |
| P/L | – PROPERTY LINE |
| PUE | – PUBLIC UTILITY EASEMENT |
| PIV | – POST INDICATOR VALVE |
| PVC | – POLYVINYL CHLORIDE |
| R | – RADIUS |
| RD | – ROOF DRAIN |
| RW | – RECLAIMED WATER |
| R/W | – RIGHT-OF-WAY |
| S | – SEWER OR SOUTH |
| SD | – STORM DRAIN |
| STA | – STATION |
| SS | – SANITARY SEWER |
| SSPWC | – STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION |
| SW | – SIDE WALK |
| T | – TELEPHONE |
| TC | – TOP OF CURB |
| W | – WATER OR WEST |
| XXX.XX | – PROPOSED ELEVATION |
| (XXX.XX) | – EXISTING ELEVATION |

### Sheet List Table


| Sheet Number | Sheet Title |
|---|---|
| C1.0 | CIVIL COVER SHEET |
| C1.1 | EXISTING CONDITIONS |
| C1.2 | EXISTING CONDITIONS |
| C2.0 | PRIVATE GENERAL NOTES |
| C2.1 | PUBLIC GENERAL NOTES |
| C3.0 | EROSION CONTROL PLAN |
| C3.1 | EROSION CONTROL DETAILS |
| C4.0 | DEMOLITION PLAN |
| C5.0 | SITE KEYNOTE PLAN |
| C5.1 | HORIZONTAL CONTROL PLAN |
| C6.0 | GRADING AND DRAINAGE PLAN |
| C7.0 | UTILITY PLAN |
| C8.0 | CONSTRUCTION DETAILS |
| C8.1 | CONSTRUCTION DETAILS |
| C8.2 | CONSTRUCTION DETAILS |
| C8.3 | CONSTRUCTION DETAILS |


## CITY EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE EROSION CONTROL PLANS, THE PROJECT'S STORM WATER POLLUTION PREVENTION PLAN (SWPPP), AND THE RECOMMENDATIONS OF SOILS REPORT.

2. EROSION CONTROL MEASURES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHENEVER THE DAILY RAINFALL PROBABILITY EXCEEDS 40%.

3. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES AT ALL TIME.

4. CONTROLS SHALL BE SET UP AND MAINTAINED AS CONSTRUCTION PROCEEDS. ADJUSTMENTS TO THE EROSION CONTROL PLANS ARE ALLOWABLE AS REQUIRED AND APPROVED BY CITY.

5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL IMPLEMENT STRUCTURAL AND NONSTRUCTURAL BEST MANAGEMENT PRACTICES (BMPS) IN CONFORMANCE WITH THE GUIDELINES OF THE CALIFORNIA STORM WATER BMP HANDBOOKS.

6. AFTER A RAINSTORM, ALL SEDIMENT AND DEBRIS SHALL BE REMOVED FROM STREETS, BERMS AND DESILTING BASINS. ANY GRADED SLOPE SURFACE PROTECTION MEASURES DAMAGED DURING A RAINSTORM SHALL BE IMMEDIATELY REPAIRED.

7. THE PERMITTEE AND CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATED A HAZARDOUS CONDITION.

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH N. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

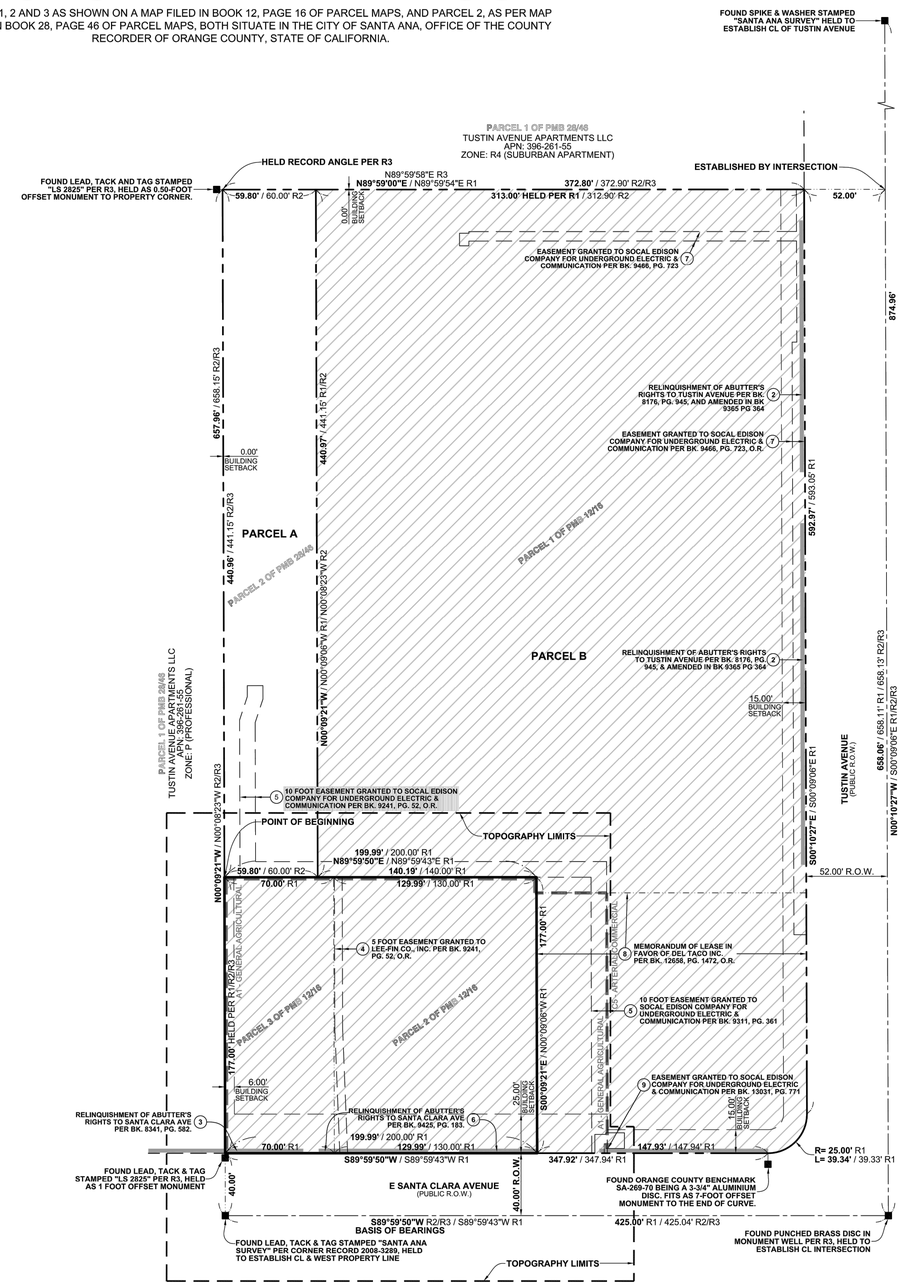
PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO
SENIOR CIVIL ENGINEER RCE NO.: 90371 DATE 6/29/2023
DESIGNED: HS DRAWN: MH CHECKED: HS

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL
PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 DATE XX/YYYY

PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705
**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA
CIVIL COVER SHEET
SHEET NO. C1.0

# ALTA/NSPS LAND TITLE SURVEY

OF PARCELS 1, 2 AND 3 AS SHOWN ON A MAP FILED IN BOOK 12, PAGE 16 OF PARCEL MAPS, AND PARCEL 2, AS PER MAP RECORDED IN BOOK 28, PAGE 46 OF PARCEL MAPS, BOTH SITUATE IN THE CITY OF SANTA ANA, OFFICE OF THE COUNTY RECORDER OF ORANGE COUNTY, STATE OF CALIFORNIA.




NOT TO SCALE
FOR REFERENCE ONLY

GRAPHIC SCALE 1" = 40'

## RECORD LEGEND

**XX** INDICATES A DIMENSION THAT IS MEASURED OR CALCULATED FROM MEASURED DISTANCES.

R1 INDICATES A DIMENSION PER PARCEL MAP RECORDED IN BK 12, PG 16 OF PARCEL MAPS.

R2 INDICATES A DIMENSION PER PARCEL MAP RECORDED IN BK 28, PG 46 OF PARCEL MAPS.

R3 INDICATES A DIMENSION PER TRACT MAP NO 14568, RECORDED IN BK 695, PGS 46-47 OF MISC MAPS.

## PARCEL INFORMATION

**PARCEL A**
BEING PARCEL 2 AS RECORDED IN BK. 28, PG. 46 OF PARCEL MAPS
APN: 396-261-30, 31 AND 32
SQ. FT. = 26,369.828 / 0.605 ACRES
ZONING: CS (COMMUNITY COMMERCIAL)

**PARCEL B**
BEING PARCELS 1, 2 AND 3 AS RECORDED IN BK. 12, PG. 16 OF PARCEL MAPS
APN: 396-261-26, 33, 34, 35, 36, 37 AND 38
SQ. FT. = 203,947.274 / 4.682 ACRES
ZONING: CS (COMMUNITY COMMERCIAL) &
A1 (GENERAL AGRICULTURAL)

**McDONALDS LEASE**
BEING PARCELS 2 AND 3 AS RECORDED IN BK. 12, PG. 16 OF PARCEL MAPS
APN: 396-261-26, 33 AND 38
SQ. FT. = 35,398.396 / 0.813 ACRES
ZONING: A1 (GENERAL AGRICULTURAL)

## LEGEND

**NOTE: ALL SYMBOLS OR LINETYPES SHOWN BELOW MAY NOT BE INCORPORATED ON THIS DRAWING.**

- PROPERTY BOUNDARY LINE
- PROPOSED LEASE AREA
- CENTERLINE
- INDETERMINATE BOUNDARY LINE
- EASEMENT LINE
- INDICATES RESTRICTED ACCESS
- ZONING BOUNDARY
- APN — ASSESSORS PARCEL NUMBER
- R.O.W. — RIGHT OF WAY
- PL — PROPERTY LINE
- CL — CENTER LINE
- FOUND MONUMENT AS DESCRIBED
- SET 5/8" I.P. W/ PLASTIC CAP TAG "LS 8645"
- EXISTING BUILDING WITH OVERHANG
- PARCEL B

## SURVEYOR'S METES AND BOUNDS LEGAL DESCRIPTION

**McDONALDS LEASE**
BEING PARCELS 2 AND 3 AS SHOWN ON A MAP FILED IN BOOK 12, PAGE 16 OF PARCEL MAPS, IN THE CITY OF SANTA ANA, OFFICE OF THE COUNTY RECORDER OF ORANGE COUNTY, STATE OF CALIFORNIA AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**BEGINNING** AT THE SOUTHWEST CORNER OF PARCEL 2 OF PARCEL MAP RECORDED IN BOOK 28, PAGE 46 OF PARCEL MAPS, IN THE OFFICE OF SAID ORANGE COUNTY RECORDER; THENCE N89°59'50"E A DISTANCE OF 199.99 FEET TO A WEST LINE OF PARCEL 1 OF SAID PARCEL MAP RECORDED IN BOOK 12, PAGE 16 OF PARCEL MAPS; THENCE ALONG SAID WEST LINE, S00°09'21"E A DISTANCE OF 177.00 FEET TO THE NORTH RIGHT OF WAY LINE OF EAST SANTA CLARA AVENUE, BEING 40.00 FEET WIDE IN HALF WIDTH; THENCE ALONG SAID NORTH RIGHT OF WAY LINE, S89°59'50"W A DISTANCE OF 199.99 FEET TO AN EAST LINE OF PARCEL 1 OF SAID PARCEL MAP RECORDED IN BOOK 28, PAGE 46 OF PARCEL MAPS; THENCE ALONG SAID EAST LINE, N00°09'21"W A DISTANCE OF 177.00 FEET TO THE **POINT OF BEGINNING.**

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS. DO NOT SCALE THE DRAWING - ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO ATLAS GEOSPATIAL WITHOUT DELAY. THE COPYRIGHTS TO ALL DESIGNS AND DRAWINGS ARE THE PROPERTY OF ATLAS GEOSPATIAL. REPRODUCTION OR USE FOR ANY PURPOSE OTHER THAN THAT AUTHORIZED BY ATLAS GEOSPATIAL IS FORBIDDEN.

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| DATE | REVISIONS | BY |
|---|---|---|
| | | |

**ALTA/NSPS LAND TITLE SURVEY**
FOR, MCDONALDS, 004-5088

2101/2109 EAST SANTA CLARA AVENUE,
CITY OF SANTA ANA, COUNTY OF ORANGE
STATE OF CALIFORNIA

| | |
|---|---|
| PROJECT NUMBER: 004-5088 | |
| DWG NAME: 21-111 SANTA ANA MCD ALTA | |
| PREPARED BY: AG/AM | DATE: 11.16.2021 |
| CHECKED BY: JAA/WWW | DATE: 11.16.2021 |
| REVISION 0 | SHEET 2 OF 3 |

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL

| PREPARED UNDER THE SUPERVISION OF: | | DATE |
|---|---|---|
| HANNAH LUEVANO | SENIOR CIVIL ENGINEER RCE NO.: 90371<br>DESIGNED: HS DRAWN: MH CHECKED: HS | 6/29/2023 |
| REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL | PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 | XX/YYYY |

PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

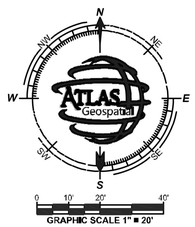
**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

EXISTING CONDITIONS

SHEET NO. C1.1

# ALTA/NSPS LAND TITLE SURVEY

OF PARCELS 1, 2 AND 3 AS SHOWN ON A MAP FILED IN BOOK 12, PAGE 16 OF PARCEL MAPS, AND PARCEL 2, AS PER MAP RECORDED IN BOOK 28, PAGE 46 OF PARCEL MAPS, BOTH SITUATE IN THE CITY OF SANTA ANA, OFFICE OF THE COUNTY RECORDER OF ORANGE COUNTY, STATE OF CALIFORNIA.

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SQ. FT.: ± 203,947.274 / 4.682 ACRES
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**McDONALDS LEASE**
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APN: 398-261-26, 33 AND 38
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## LEGEND

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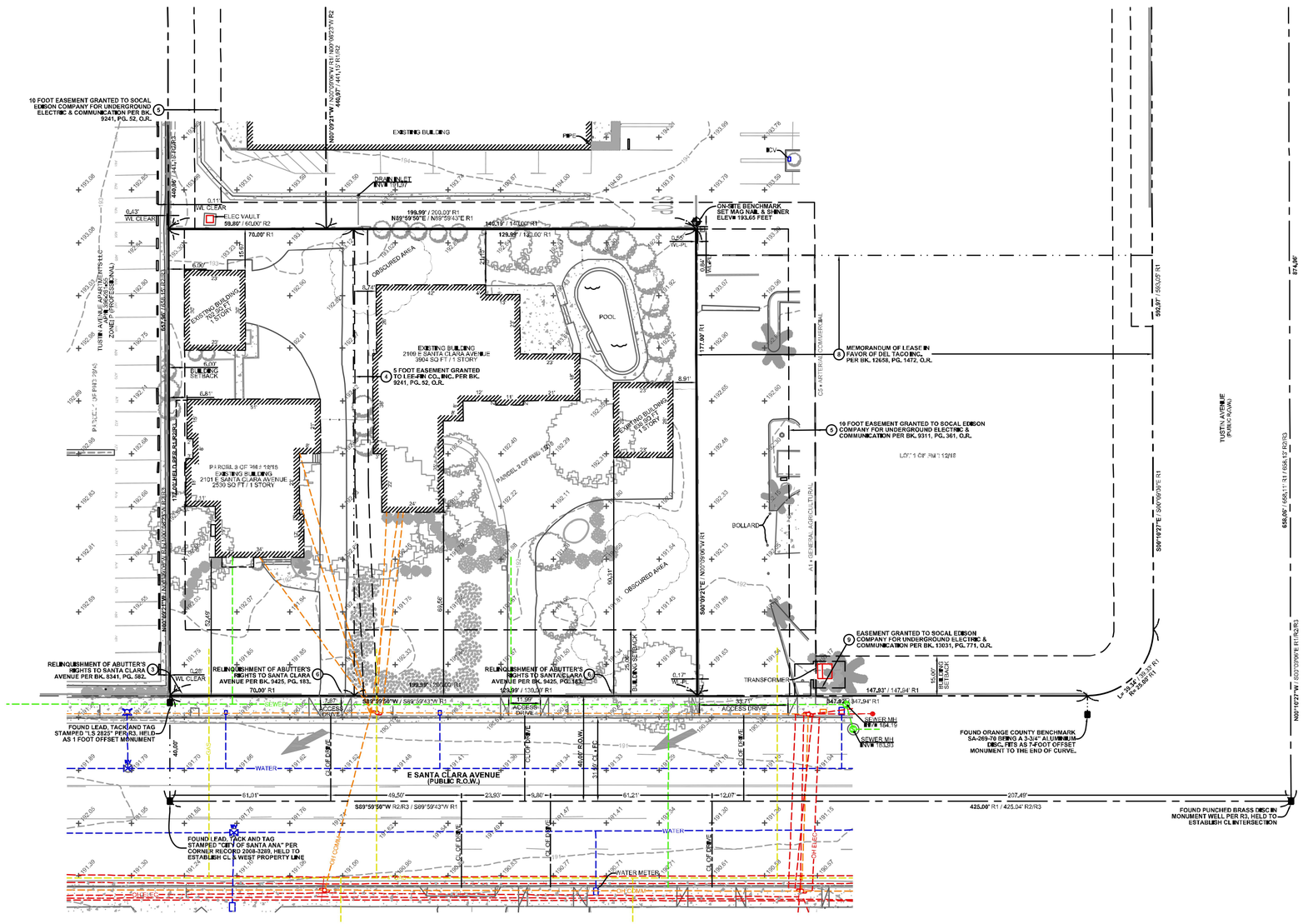
- PROPERTY BOUNDARY LINE
- PROPOSED LEASE AREA
- CENTERLINE
- INDETERMINATE BOUNDARY LINE
- EASEMENT LINE
- 135 EXISTING CONTOURS
- OH ELEC OVERHEAD ELECTRICAL LINE
- COMM COMMUNICATION LINE
- EXISTING CHAIN LINK FENCE
- EXISTING WROUGHT IRON FENCE
- BLOCK WALL
- INDICATES RESTRICTED ACCESS
- ZONING BOUNDARY
- APN ASSESSORS PARCEL NUMBER
- R.O.W. RIGHT OF WAY
- PL PROPERTY LINE
- CL CENTER LINE
- FC FACE OF CURB
- WL WALL
- FN FENCE
- INV INVERT
- ICV IRRIGATION CONTROL VALVE
- PBX PULLBOX
- FDC FIRE DEPARTMENT CONNECTION
- PIV POST INDICATOR VALVE
- BFP BACKFLOW PREVENTOR
- ELEC ELECTRIC
- COMM COMMUNICATION
- XXBHL BUILDING HEIGHT LOCATION
- FIRE HYDRANT
- LIGHT WITH CONCRETE BASE
- WATER VALVE
- GAS VALVE
- STORM DRAIN MANHOLE
- SANITARY SEWER MANHOLE
- SEWER CLEANOUT
- GREASE INTERCEPTOR MANHOLE
- COMMUNICATION MANHOLE
- X 519.06 SPOT ELEVATIONS
- STREET SIGN
- UTILITY POLE
- GUY WIRE
- EXISTING BOLLARD
- TRAFFIC SIGNAL/LIGHTPOLE
- FOUND MONUMENT AS DESCRIBED
- SET 5/8" I.P., W/ PLASTIC CAP TAG "LS 8645"
- EXISTING BUILDING WITH OVERHANG

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| DATE | REVISIONS | BY |
|---|---|---|

**ALTA/NSPS LAND TITLE SURVEY**
FOR, MCDONALDS, 004-5088

2101/2109 EAST SANTA CLARA AVENUE,
CITY OF SANTA ANA, COUNTY OF ORANGE
STATE OF CALIFORNIA

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| DWG NAME: 21-111 SANTA ANA MCD ALTA | |
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| REVISION 0 | SHEET 3 OF 3 |

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
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THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

ENGINEERS SEAL

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO — SENIOR CIVIL ENGINEER RCE NO.: 90371 — DATE 6/29/2023
DESIGNED: HS DRAWN: MH CHECKED: HS

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL — PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 — DATE XX/YYYY

PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

EXISTING CONDITIONS

SHEET NO. C1.2

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

## GENERAL CONSTRUCTION NOTES

1. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
3. THE CONTRACTOR AND SUBCONTRACTORS SHOULD BE FAMILIAR WITH ALL STATE AND LOCAL REQUIREMENTS RELATED TO SITE CONSTRUCTION ACTIVITIES PRIOR TO COMMENCING WORK. ALL WORK SHALL CONFORM AS APPLICABLE TO THESE GOVERNING STANDARDS AND SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
5. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 48 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
8. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
9. ALL COPIES OF COMPACTION, CONCRETE AND OTHER REQUIRED TEST RESULTS ARE TO BE SENT TO THE OWNER AND DESIGN ENGINEER OF RECORD DIRECTLY FROM THE TESTING AGENCY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF CALIFORNIA PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
12. ANY WELLS DISCOVERED ON SITE THAT WILL HAVE NO USE MUST BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN A MANNER APPROVED BY ALL JURISDICTIONAL AGENCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY WELL ABANDONMENT PERMITS REQUIRED.
13. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE APPROPRIATE JURISDICTIONAL AGENCIES WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
14. ANY EXISTING UTILITY, WHICH IS TO BE EXTENDED, WHICH IS THE CONNECTION POINT FOR NEW UNDERGROUND UTILITIES, OR WHICH NEW FACILITIES CROSS, SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO PLACEMENT OF THE NEW UTILITIES. COST OF SUCH EXCAVATION AND SUBSEQUENT BACKFILL SHALL BE INCLUDED IN THE PRICES PAID FOR THE VARIOUS ITEMS OF WORK. THE ELEVATIONS AND LOCATIONS OF THE EXISTING FACILITIES WILL BE CHECKED BY THE PUBLIC WORKS INSPECTOR AND THE ENGINEER. IF IN THE OPINION OF THE INSPECTOR A CONFLICT EXISTS, THEN THE ENGINEER SHALL MAKE ANY NEEDED GRADE AND/ OR ALIGNMENT ADJUSTMENTS AND REVISE THE PLANS ACCORDINGLY. ALL GRAVITY FLOW PIPELINES TO BE LAID UPGRADE FROM THE LOWEST POINT STARTING AT THE END OF EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.

## DESIGN ENGINEER NOTES

1. THE TERM "DESIGN ENGINEER" USED HEREIN SHALL MEAN THE ENGINEER WHO HAS SIGNED AND SEALED HIS/HER RESPECTIVE PLAN SHEETS AND IS IN RESPONSIBLE CHARGE OF THE ENGINEERING DESIGN ON THOSE SHEETS. THE TERM "CONTRACTOR" USED HEREIN SHALL MEAN ANY GENERAL CONTRACTOR OR SUBCONTRACTOR USING THESE PLANS.

2. THE DESIGN ENGINEER SHALL NOT PROVIDE, OBSERVE, COMMENT ON NOR ENFORCE ANY SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, IMPLEMENT, AND MAINTAIN ALL SAFETY MEASURES AND SHALL BE SOLELY RESPONSIBLE FOR ALL REQUIRED SAFETY MEASURES, PROCEDURES AND PROGRAMS AND COMPLYING WITH ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. THE CONTRACTOR AGREES THAT SHE/HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS AND SAFETY OF ALL PERSONS AND PROPERTY DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

3. THE DESIGN ENGINEER SHALL HAVE NO RESPONSIBILITY FOR ANY OF THE CONTRACTOR'S MEANS AND METHODS OF CONSTRUCTION, TECHNIQUES, EQUIPMENT CHOICE AND USAGE, SEQUENCE, SCHEDULE, SAFETY PROGRAMS, OR SAFETY PRACTICES, NOR SHALL THE DESIGN ENGINEER HAVE ANY AUTHORITY OR RESPONSIBILITY TO DIRECT OR STOP THE WORK OF ANY CONTRACTOR.

4. ANY CHANGES MADE BY THE CONTRACTOR TO THE CONTRACTUALLY AGREED UPON SCOPE, SCHEDULE AND/OR FEE, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE OWNER, IS THE SOLE RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR DIRECTING, IMPLICITLY OR EXPLICITLY ANY SUCH CHANGES AND THE CONTRACTOR ASSUMES ALL RISK OF UNDERTAKING ANY SUCH CHANGES.

5. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE DESIGN ENGINEER AND OWNER, THEIR OFFICERS, AGENTS AND EMPLOYEES, HARMLESS FROM ANY AND ALL CLAIMS, DEMANDS, JUDGMENTS, LOSS, DAMAGES, COSTS, EXPENSES, FEES OR LIABILITY WHATSOEVER, REAL OR ALLEGED, IN CONNECTION WITH, IN WHOLE OR IN PART, DIRECTLY OR INDIRECTLY, THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE DESIGN ENGINEER.

6. IF THERE ARE ANY QUESTIONS REGARDING THESE PLANS, THE CONTRACTOR SHALL REQUEST IN WRITING FROM THE DESIGN ENGINEER AND THE OWNER, AN INTERPRETATION BEFORE PERFORMING ANY RELATED OR IMPACTED WORK. ANY ELECTRONIC FILES ARE PROVIDED ONLY FOR THE CONVENIENCE OF THE RECEIVING PARTY AND ARE INTENDED SOLELY FOR THE EXCLUSIVE USE BY THAT PARTY FOR THE PURPOSES EXPRESSLY AUTHORIZED. IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE, ONLY PRINTED COPIES OF DOCUMENTS MAY BE RELIED UPON.

7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PREPARING ITS BID, IN WHOLE AND IN PART, BASED UPON THE DESIGN SHOWN ON THESE PLANS. THE CONTRACTOR IS NOT AUTHORIZED TO USE ANY QUANTITIES SHOWN ON THESE PLANS WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD. THE DESIGN ENGINEER MAKES NO WARRANTY OR REPRESENTATION AS TO THE SUITABILITY OF ANY INFORMATION SHOWN HEREON FOR DETERMINING A CONTRACTOR BID.

8. ANYTHING MENTIONED IN THE SPECIFICATIONS, IF ANY, AND NOT SHOWN ON THE DRAWINGS, OR SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, SHALL BE OF LIKE EFFECT AS IF SHOWN OR MENTIONED IN BOTH.

9. THE EXISTENCE, LOCATION, TYPE, CONDITION AND SIZE OF UNDERGROUND UTILITIES, FACILITIES OR STRUCTURES ('FACILITIES") SHOWN ON THESE PLANS WAS OBTAINED FROM A SEARCH OF READILY AVAILABLE RECORDS, OR AS PROVIDED BY OTHERS. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID INFORMATION. THE CONTRACTOR SHALL CONFIRM SAID INFORMATION BY FIELD MEASUREMENTS, OBSERVATIONS AND WHATEVER MEANS NECESSARY, PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DESIGN ENGINEER IN WRITING IF ANY DISCREPANCIES OR CONFLICTING INFORMATION IS FOUND. THE CONTRACTOR SHALL PROTECT THE FACILITIES SHOWN HEREON AND ANY OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS, AS NEEDED. ALL DAMAGES THERETO CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AND STANDARDS AT THE SOLE EXPENSE OF THE CONTRACTOR.

10. THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES AS NEEDED, SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY DUE TO THE ACTUAL LOCATION, SIZE, TYPE, OR CONDITION OF EXISTING FACILITIES DIFFERING FROM WHAT IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ALL SUCH FACILITIES WHETHER NOTED ON THESE PLANS OR NOT. THE DESIGN ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ANY DAMAGE TO THE EXISTING IMPROVEMENTS AND REPLACEMENT TO THE SATISFACTION OF THE OWNER AND/OR AUTHORITY HAVING JURISDICTION AS NEEDED.

11. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO STARTING WORK ADJACENT TO, ABOVE OR BELOW THEIR FACILITIES AND SHALL COORDINATE ALL WORK WITH UTILITY COMPANY REPRESENTATIVES.

12. THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED GRADING ELEMENTS BEFORE THE START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES.

13. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THE EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE APPROXIMATE IN PLACE VOLUMES CALCULATED FROM THE EXISTING GROUND TO THE PROPOSED FINISHED GRADE. EXISTING GROUND IS DEFINED BY THE CONTOURS AND SPOT GRADES ON THE BASE SURVEY. PROPOSED FINISHED GRADE IS DEFINED AS THE FINAL GRADE AS INDICATED ON THE GRADING PLAN(S) AS FINISHED GROUND, FINISHED SURFACE, AND FINISHED FLOOR ELEVATIONS. NO REPRESENTATIONS OF SUCH QUANTITIES OR A BALANCED SITE CONDITION ARE MADE BY THE ENGINEER OF RECORD. THE EARTHWORK QUANTITIES SHOWN ON THESE PLANS ARE FOR PERMITTING PURPOSES ONLY. UNLESS EXPLICITLY STATED OTHERWISE HEREIN, THEY HAVE NOT BEEN FACTORED TO ACCOUNT FOR CHANGES IN VOLUME DUE TO BULKING, CLEARING AND GRUBBING, SHRINKAGE, SUBSIDENCE, OVER-EXCAVATION AND RE-COMPACTION, AND CONSTRUCTION METHODS. NOR DO THEY ACCOUNT FOR THE THICKNESS OF PAVEMENT SECTIONS, STORMWATER QUALITY MEDIA SECTIONS, UTILITY PIPES, TRENCHING AND BEDDING MATERIALS, BUILDING OR WALL FOOTINGS, BUILDING SLABS THICKNESSES AND UNDERLYING BASE OR SAND LAYERS, REUSE OF PULVERIZED MATERIALS THAT WILL UNDERLIE PAVEMENTS, ETC. THE CONTRACTOR IS NOT AUTHORIZED TO USE THE ESTIMATES HEREIN FOR BIDDING AND CONSTRUCTION PURPOSES WITHOUT THE EXPLICIT WRITTEN PERMISSION OF THE ENGINEER OF RECORD.

14. PROPOSED BUILDING PAD ELEVATIONS, IF SHOWN, ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. CONTRACTOR SHALL CONFIRM SLAB STRUCTURAL SECTION THICKNESSES AND PAD PREPARATION REQUIREMENTS PRIOR TO GRADING FINISHED PADS.

15. THE CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL AND ALL OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. SHOULD DISCREPANCIES OR CONFLICTING INFORMATION BE FOUND ON ANY PLANS, OR IN ANY SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND DESIGN ENGINEER IN WRITING BEFORE PROCEEDING WITH THE WORK IN QUESTION.

16. THE PROPOSED BUILDING FOOTPRINT(S) AND OTHER STRUCTURE FOOTPRINTS SHOWN IN THESE PLANS WERE PROVIDED TO THE DESIGN ENGINEER BY THE PROJECT ARCHITECT AT THE TIME OF PREPARATION OF THESE PLANS. THE DESIGN ENGINEER MAKES NO REPRESENTATION AS TO THE ACCURACY OF THESE FOOTPRINTS AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING WITH THE RELEVANT DESIGN TEAM PROFESSIONALS, AND USING THE FINAL, CORRECT VERSION OF THE FOOTPRINTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE STRUCTURE'S FINAL POSITION ON THE SITE BASED UPON THE FINAL ARCHITECTURAL FOOTPRINT, CIVIL PLANS, SURVEY AND ANY OTHER RELEVANT DOCUMENTS. ANY DIFFERENCES FOUND SHALL BE IMMEDIATELY REPORTED TO THE DESIGN ENGINEER AND OWNER/PROJECT ARCHITECT.

17. THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT THE PROJECT PROPERTY FROM ANY EROSION AND SILTATION THAT RESULT FROM CONTRACTOR OPERATIONS, BY APPROPRIATE MEANS, OR BY SPECIFIC MEANS DESCRIBED IN THE PROJECT'S PLANS, SPECIFICATIONS OR STORM WATER POLLUTION PREVENTION REPORT, UNTIL SUCH TIME THAT THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY WHOMEVER IS TO BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND THE AGENCY HAVING JURISDICTION. THE DESIGN ENGINEER SHALL HAVE NO RESPONSIBILITY TO DIRECT THE CONTRACTOR REGARDING THE MEANS AND METHODS OF STORMWATER POLLUTION PREVENTION, SEQUENCE, OR SCHEDULE.

18. ALL SHOP DRAWINGS, RFIS AND ANY OTHER DOCUMENTS THAT REQUIRE DESIGN ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, TO ALLOW ADEQUATE REVIEW, COORDINATION AND RESPONSE. SAID DOCUMENTS ARE NOT A DIRECTION FROM THE DESIGN ENGINEER TO MODIFY THE CONTRACTORS SCOPE, SCHEDULE OR PRICE, AND THE CONTRACTOR WARRANTS NOT TO USE THEM AS SUCH.

19. THE CONTRACTOR SHALL ENSURE APPROPRIATE LICENSED PROFESSIONALS HAVE BEEN RETAINED BY THE CONTRACTOR TO PROVIDE ANY/ALL REQUIRED PROJECT CERTIFICATIONS AS MAY BE REQUIRED BY ANY AUTHORITY HAVING JURISDICTION. THE DESIGN ENGINEER WILL NOT PROVIDE ANY PROJECT CERTIFICATIONS UNLESS SPECIFICALLY RETAINED BY THE OWNER TO PROVIDE LIMITED SERVICES.

20. CONTRACTOR SHALL RETAIN A LICENSED SURVEYOR TO DOCUMENT ALL CHANGES TO THE APPROVED CONSTRUCTION DOCUMENTS DURING CONSTRUCTION. THE LICENSED SURVEYOR SHALL PREPARE A SIGNED AND SEALED "AS-BUILT' DRAWING UPON COMPLETION OF CONSTRUCTION. THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR THE PREPARATION IN WHOLE OR IN PART OF THE "AS-BUILT" DRAWINGS.

21. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MONUMENTATION AND BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AUTHORIZED TO PRACTICE LAND SURVEYING. A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FILED BY THE LICENSED LAND SURVEYOR OR REGISTERED CIVIL ENGINEER AS REQUIRED BY THE MOST CURRENT VERSION OF THE LAND SURVEYORS ACT.

## EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THIS EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF CALIFORNIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. EROSION CONTROL PLAN MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. STABILIZATION PRACTICES SHOULD BE INITIATED AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS WHERE CONSTRUCTION HAS TEMPORARILY CEASED.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED AS SOON AS POSSIBLE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACK FILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

## DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. REFER TO THE DEMOLITION PLAN FOR THE LIMITS OF ASPHALT REMOVAL (THE EXISTING PARKING LOT IS TO REMAIN). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND DETERMINE THE FULL EXTENT OF ITEMS TO BE REMOVED. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
3. THE CONTRACTOR SHALL REFER TO THE DEMOLITION PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED AS NECESSARY PRIOR TO ANY DEMOLITION.
4. CONTRACTOR SHALL ADJUST GRADE OF ANY RIMS/COVERS TO THE FINISHED ELEVATIONS OF EXISTING UTILITIES TO REMAIN.

## PAVING, GRADING AND DRAINAGE NOTES

1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN JURISDICTION'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR CALTRANS SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.
2. ALL UNPAVED AREAS IN EXISTING RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION SHALL BE REGRADED AND REPAIRED TO EXISTING CONDITION OR BETTER.
3. TRAFFIC CONTROL ON ALL CALTRANS, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
4. THE CONTRACTOR SHALL GRADE THE SITE TO THE ELEVATIONS INDICATED AND SHALL REGRADE WASHOUTS WHERE THEY OCCUR AFTER EVERY RAINFALL UNTIL AN ADEQUATE STABILIZATION OCCURS.
5. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE COVERED WITH ROCK UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
6. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
7. WHERE EXISTING PAVEMENT IS INDICATED TO BE REMOVED AND REPLACED, THE CONTRACTOR SHALL SAW CUT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND REPLACE THE PAVEMENT WITH THE SAME TYPE AND DEPTH OF MATERIAL AS EXISTING OR AS INDICATED.
8. WHERE NEW PAVEMENT MEETS THE EXISTING PAVEMENT, THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT A MINIMUM 2" DEEP FOR A SMOOTH AND STRAIGHT JOINT AND MATCH THE EXISTING PAVEMENT ELEVATION WITH THE PROPOSED PAVEMENT UNLESS OTHERWISE INDICATED.
9. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
10. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
11. STRIP TOPSOIL AND ORGANIC MATTER FROM ALL AREAS OF THE SITE AS REQUIRED. IN SOME CASES TOPSOIL MAY BE STOCKPILED ON SITE FOR PLACEMENT WITHIN LANDSCAPED AREAS BUT ONLY AS DIRECTED BY THE OWNER.
12. FIELD DENSITY TESTS SHALL BE TAKEN AT INTERVALS IN ACCORDANCE WITH THE LOCAL JURISDICTIONAL AGENCY.
13. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED AS PER PLANS. THE AREAS SHALL THEN BE STABILIZED BY MEANS AND METHODS APPROVED BY THE LOCAL AGENCY. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EARTHEN AREAS WILL BE COVERED WITH ROCK OR MULCHED AS SHOWN ON THE LANDSCAPING PLAN.
14. ALL CUT OR FILL SLOPES SHALL BE 4 (HORIZONTAL) :1 (VERTICAL) OR FLATTER UNLESS OTHERWISE SHOWN.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
16. THE CONTRACTOR SHALL TAKE ALL REQUIRED MEASURES TO CONTROL TURBIDITY, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THEREAFTER, THE CONTRACTOR MUST REMOVE THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS OF THE GOVERNING CODE.
17. EXPOSED SLOPES SHOULD BE STABILIZED WITHIN 48 HOURS OF COMPLETING FINAL GRADING, AND AT ANY OTHER TIME AS NECESSARY, TO PREVENT EROSION, SEDIMENTATION OR TURBID DISCHARGES.
18. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE REQUIRED PERMITS COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY GOVERNING JURISDICTIONS.
19. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
20. THE CONTRACTOR SHALL INSTALL ALL UNDERGROUND STORM WATER PIPING PER MANUFACTURER'S RECOMMENDATIONS.

## WATER AND SEWER UTILITY NOTES

1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, CLEANOUTS, GRAVITY SEWER LINES, AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR UTILITY LOCATION AND COORDINATION IN ACCORDANCE WITH THE NOTES CONTAINED IN THE GENERAL CONSTRUCTION SECTION OF THIS SHEET. THE CONTRACTOR SHALL ALSO SCOPE THE SEWER LINES ON SITE AND RECORD A DVD.
3. THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
4. DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERTIGHT PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
5. ALL PHASES OF INSTALLATION, INCLUDING UNLOADING, TRENCHING, LAYING AND BACK FILLING, SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER. ALL PIPE AND FITTINGS SHALL BE CAREFULLY STORED FOLLOWING MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE COATING OR LINING IN ANY D.I. PIPE FITTINGS. ANY PIPE OR FITTING WHICH IS DAMAGED OR WHICH HAS FLAWS OR IMPERFECTIONS WHICH, IN THE OPINION OF THE ENGINEER OR OWNER, RENDERS IT UNFIT FOR USE, SHALL NOT BE USED. ANY PIPE NOT SATISFACTORY FOR USE SHALL BE CLEARLY MARKED AND IMMEDIATELY REMOVED FROM THE JOB SITE, AND SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. WATER FOR FIRE FIGHTING SHALL BE AVAILABLE FOR USE PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
7. ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACK FILLED IN ACCORDANCE WITH THE GOVERNING JURISDICTIONAL AGENCY'S SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
8. UNDERGROUND LINES SHALL BE SURVEYED BY A STATE OF CALIFORNIA PROFESSIONAL LAND SURVEYOR PRIOR TO BACK FILLING.
9. CONTRACTOR SHALL PERFORM, AT HIS OWN EXPENSE, ANY AND ALL TESTS REQUIRED BY THE SPECIFICATIONS AND/OR ANY AGENCY HAVING JURISDICTION. THESE TESTS MAY INCLUDE, BUT MAY NOT BE LIMITED TO, INFILTRATION AND EXFILTRATION, TELEVISION INSPECTION AND A MANDREL TEST ON GRAVITY SEWER. A COPY OF THE TEST RESULTS SHALL BE PROVIDED TO THE UTILITY PROVIDER, OWNER AND JURISDICTIONAL AGENCY AS REQUIRED.

## BUILDING AND SAFETY DIVISION NOTES

1. FILL TO BE COMPACTED TO NOT LESS THAN 90% OF MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557.
2. FIELD DENSITY WILL BE DETERMINED BY THE SAND-CONE METHOD A.S.T.M. 1556-07 AND/OR NUCLEAR DENSITY GAUGE METHOD A.S.T.M. 2922/3017. IN FINE GRAINED, COHESIVE SOILS, FIELD DENSITY MAY BE DETERMINED BY THE DRIVE-CYLINDER METHOD D2937 A.S.T.M. PROVIDED NOT LESS THAN 20% OF THE REQUIRED DENSITY TESTS, UNIFORMLY DISTRIBUTED, ARE BY THE SAND-CONE METHOD. THE METHOD OF DETERMINING FIELD DENSITY SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOILS ENGINEER AND APPROVED IN ADVANCE BY THE BUILDING OFFICIAL.
3. NOT LESS THAN ONE FIELD DENSITY TEST WILL BE MADE FOR EACH TWO-FOOT VERTICAL LIFT OF FILL NOR LESS THAN ONE SUCH TEST FOR EACH 1,000 CUBIC YARDS OF MATERIAL PLACED UNLESS OTHERWISE RECOMMENDED BY THE SOILS ENGINEER.
4. NO FILL TO BE PLACED UNTIL STRIPPING OF VEGETATION, REMOVAL OF UNSUITABLE SOILS AND INSTALLATION OF SUBDRAINS (IF ANY) HAS BEEN INSPECTED AND APPROVED BY THE SOILS ENGINEER.
5. NO ROCK OR SIMILAR MATERIAL GREATER THAN 8" IN DIAMETER WILL BE PLACED IN THE FILL UNLESS RECOMMENDATIONS FOR SUCH PLACEMENT HAVE BEEN SUBMITTED BY THE SOILS ENGINEER IN ADVANCE AND APPROVED BY THE BUILDING OFFICIAL.
6. FINISH GRADING WILL BE COMPLETED AND APPROVED BEFORE OCCUPANCY OF BUILDINGS.
7. SEE C1.0 – CIVIL COVER SHEET FOR EARTHWORK VOLUMES.
8. FILL SLOPES SHALL NOT BE STEEPER THAN 2.1.
9. PRIOR TO THE ISSUANCE OF BUILDING PERMITS, SUBMIT A SOIL'S ENGINEER REPORT ON THE EXPANSIVE PROPERTIES OF SOIL AS SUCH SOILS ARE DEFINED BY THE BUILDING CODE, SECTION 2904(B) ON ALL BUILDING SITES IN THE PROPOSED SUBDIVISION.
10. DENSITY TESTS WILL BE MADE AT POINTS APPROXIMATELY ONE FOOT BELOW THE FILL SLOPE SURFACE. ONE TEST WILL BE MADE FOR EACH 1,000 SQ. FT. OF SLOPE SURFACE, BUT NOT LESS THAN ONE TEST FOR EACH 10 FT. VERTICAL OF SLOPE HEIGHT UNLESS OTHERWISE RECOMMENDED BY THE SOILS ENGINEER.
11. ALL PADS AT ROUGH GRADING WILL HAVE A MINIMUM SLOPE OF 1 % TOWARDS THE STREET OR DESIGNED DRAINAGE OUTLET.
12. ENGINEER MUST SET GRADE STAKES FOR ALL DRAINAGE DEVICES AND OBTAIN INSPECTION BEFORE POURING.
13. APPROVAL OF THIS PLAN BY THE LOCAL AGENCY DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THE PROTECTION OF ALL UTILITIES WITHIN THE LIMITS OF THIS PROJECT.
14. FILLS SHALL BE BENCHED IN ACCORDANCE WITH APPROVED GEOTECHNICAL REPORT
15. ALL TRENCH BACKFILLS SHALL BE TESTED AND CERTIFIED BY THE SITE SOILS ENGINEER PER THE GRADING CODE.
16. SUBDRAIN OUTLETS SHALL BE COMPLETED AT THE BEGINNING OF THE SUBDRAIN CONSTRUCTION.
17. THE EXACT LOCATION OF THE SUBDRAINS SHALL BE SURVEYED IN THE FIELD FOR LINE AND GRADE.
18. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY AN ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL RECOMMEND NECESSARY TREATMENT TO THE BUILDING OFFICIAL FOR APPROVAL.
19. WHERE SUPPORT OR BUTTRESSING OF CUT AND NATURAL SLOPES IS DETERMINED TO BE NECESSARY BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER, THE SOILS ENGINEER WILL SUBMIT DESIGN, LOCATION AND CALCULATIONS TO THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. THE ENGINEERING GEOLOGIST AND SOILS ENGINEER WILL INSPECT AND CONTROL THE CONSTRUCTION OF THE BUTTRESSING AND CERTIFY TO THE STABILITY OF THE SLOPE AND ADJACENT STRUCTURES UPON COMPLETION.
20. THE SOILS ENGINEER AND ENGINEERING GEOLOGIST SHALL PERFORM SUFFICIENT INSPECTIONS AND BE AVAILABLE DURING GRADING AND CONSTRUCTION TO PROVIDE CONSULTATION CONCERNING COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THEIR PURVIEW.
21. THE DESIGN CIVIL ENGINEER SHALL BE AVAILABLE DURING GRADING AND CONSTRUCTION FOR CONSULTATION CONCERNING COMPLIANCE WITH THE PLANS, SPECIFICATIONS, AND CODE WITHIN THIS PURVIEW.
22. DUST SHALL BE CONTROLLED BY WATERING.
23. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
24. THE LOCATION AND PROTECTION OF ALL UTILITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
25. THE CUT PORTION OF CUT/FILL TRANSITION LOTS SHOULD BE OVEREXCAVATED 36" AND BE REPLACED WITH COMPACTED FILL TO A MINIMUM RELATIVE COMPACTION OF 90% UNLESS OTHERWISE RECOMMENED BY THE SOILS ENGINEER.

## RECORD DRAWINGS

1. WHERE LOCAL JURISDICTIONS REQUIRE RECORD DRAWINGS, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER AND OWNER COPIES OF A PAVING, GRADING AND DRAINAGE RECORD DRAWING AND A SEPARATE UTILITY RECORD DRAWING, BOTH PREPARED BY A CALIFORNIA REGISTERED SURVEYOR. THE RECORD DRAWINGS SHALL VERIFY ALL DESIGN INFORMATION INCLUDED ON THE DESIGN PLANS OF THE SAME NAME.

## PROJECT CLOSEOUT

CONTRACTOR SHALL PROVIDE THE NECESSARY ITEMS INCLUDING ANY TESTING, REPORTS, OR CERTIFICATION DOCUMENTS REQUIRED BY THE GOVERNING JURISDICTIONS TO PROPERLY CLOSEOUT THE PROJECT BEFORE IT CAN BE DEEMED COMPLETE.

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of Southern California
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TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

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**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
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**REFERENCES**

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|---|---|
| BENCHMARK NO.: 3C-26-06 | ELEV.: 173.744' NAVD88 |
| THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND | |
| SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET. | |
| THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP | |
| NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E. | |
| | |
| CONSTRUCTION COMPLETED: | |

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH M L... NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

| | | |
|---|---|---|
| PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO | SENIOR CIVIL ENGINEER RCE NO.: 90371<br>DESIGNED: HS DRAWN: MH CHECKED: HS | DATE<br>6/29/2023 |
| REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL | PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 | XX/YYYY |

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

PRIVATE GENERAL NOTES

SHEET NO. C2.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

## GENERAL NOTES FOR PUBLIC WORKS PERMITTED WORK ON SEWER COLLECTION SYSTEM (STANDARD 1200)

1. CONSTRUCTION AND INSTALLATION OF ALL SEWER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF SANTA ANA STANDARD PLANS AND SPECIFICATIONS. WHERE THE STANDARD PLANS ARE SILENT, CONSTRUCTION AND INSTALLATION OF SEWER MAINS AND APPURTENANCES SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION.
2. CONSTRUCTION OF SEWER MAINS AND APPURTENANCES SHALL ONLY BE PERFORMED BY QUALIFIED CONTRACTORS WITH A VALID CALIFORNIA CONTRACTOR A OR C34 LICENSE.
3. ALL NEWLY CONSTRUCTED SEWER MAINS AND APPURTENANCES SHALL BE TESTED IN ACCORDANCE WITH APWA SPECIFICATIONS. ALL NEWLY CONSTRUCTED SEWER MAINS, LATERALS AND MANHOLES MUST BE INSPECTED VIA CLOSED CIRCUIT TELEVISION CAMERA BY A NATIONAL ASSOCIATION OF SEWER SERVICE COMPANIES (NASSCO) CERTIFIED TECHNICIAN AND VIDEO SUBMITTED IN A DIGITAL FORMAT TO THE WATER RESOURCES DIVISION FOR REVIEW AND FINAL ACCEPTANCE OF WORK.
4. ALL SEWER MAINS SHALL BE VITRIFIED CLAY PIPE (VCP) PIPE OR PVC SDR-26 PIPE. ALL OTHER PIPE MATERIALS REQUIRE SPECIAL REVIEW AND APPROVAL FROM THE WATER RESOURCES DIVISION.
5. TRENCH PLATES SHALL BE FLUSH WITH PAVEMENT AND SHALL BE NON-SKID.
6. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION PRIOR TO TRENCHING.
7. WHEN PUBLIC SEWER FACILITIES ARE LOCATED ON PRIVATE PROPERTY, EASEMENT DOCUMENTS ARE TO BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO A PERMIT BEING ISSUED.
8. FINAL ACCEPTANCE WILL NOT OCCUR UNTIL ORIGINAL RECORD DRAWINGS ON MYLAR AND DIGITAL FORMAT ARE DELIVERED TO AND ACCEPTED BY THE CITY'S INSPECTOR. SHOW ALL FIELD CHANGES ON RECORD DRAWINGS.
9. ALL SEWER REPAIRS SHALL BE ACCOMPLISHED USING STAINLESS STEEL DOUBLE BANDED COUPLINGS.

## GENERAL NOTES FOR PUBLIC WORKS PERMITTED WORK ON WATER DISTRIBUTION SYSTEMS (STANDARD 1400)

1. CONSTRUCTION AND INSTALLATION OF ALL WATER MAINS AND APPURTENANCES SHALL BE IN ACCORDANCE WITH THE CITY OF SANTA ANA STANDARD PLANS AND SPECIFICATIONS. WHERE THE STANDARD PLANS ARE SILENT, CONSTRUCTION AND INSTALLATION OF WATER MAINS AND APPURTENANCES SHALL CONFORM TO THE AMERICAN WATER WORKS ASSOCIATION (AWWA) SPECIFICATIONS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION.
2. CONSTRUCTION OF WATER MAINS AND APPURTENANCES SHALL ONLY BE PERFORMED BY QUALIFIED CONTRACTORS WITH A VALID CALIFORNIA CONTRACTOR A OR C34 LICENSE.
3. NO PERSON, OTHER THAN CITY OF SANTA ANA WATER RESOURCES DIVISION STAFF CERTIFIED BY THE STATE OF CALIFORNIA AS A WATER DISTRIBUTION OPERATOR, SHALL BE ALLOWED TO OPERATE THE CITY'S WATER SYSTEM VALVES.
4. NO PERSON, OTHER THAN CITY OF SANTA ANA WATER RESOURCES DIVISION STAFF CERTIFIED BY THE STATE OF CALIFORNIA AS A WATER DISTRIBUTION OPERATOR, SHALL SHUT WATER SERVICE OFF TO ANY CUSTOMER.
5. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE CITY FOR REVIEW AND APPROVAL "DISINFECTION AND FLUSHING PLAN" PER THE CITY OF SANTA ANA DESIGN GUIDELINES AND STANDARD DRAWINGS.
6. ALL NEWLY CONSTRUCTED WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED AND TESTED IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION STANDARD C600'S. PRIOR TO CONNECTING TO THE CITY'S WATER DISTRIBUTION SYSTEM. DISINFECTION TESTING RESULTS SHALL BE SUBMITTED TO THE WATER RESOURCES DIVISION FOR REVIEW AND APPROVAL PRIOR TO CONNECTING TO THE CITY'S WATER DISTRIBUTION SYSTEM.
7. WATER MAINS WILL BE HYDROSTATIC TESTED AT 200 PSI FOR 2 HOURS. NEW WATER MAINS CANNOT BE TESTED AGAINST AN EXISTING VALVE BUT CAN BE TESTED USING A TEST PLATE.
8. REQUESTS TO SHUT-DOWN THE WATER DISTRIBUTION SYSTEM FOR TIE-INS OR OTHER PURPOSES SHALL BE COORDINATED WITH THE WATER RESOURCES DIVISION STAFF AT LEAST 2 WEEKS IN ADVANCE THROUGH THE CITY INSPECTOR. ALL CUSTOMERS AFFECTED BY THE PROPOSED SHUT DOWN SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE BY THE CONTRACTOR.
9. THE CITY OF SANTA ANA WATER RESOURCES DIVISION CANNOT GUARANTEE A COMPLETE SHUTDOWN OF EXISTING MAINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND ISOLATION OF CONSTRUCTION FOR TESTING OR ANY OTHER PURPOSES.
10. ALL FIRE HYDRANTS WHICH ARE OUT OF SERVICE OR NEW FIRE HYDRANTS WHICH HAVE NOT BEEN ACCEPTED FOR SERVICE SHALL BE COVERED WITH A SACK INDICATING THAT THE HYDRANTS ARE NOT IN SERVICE.
11. MAINTAINING WATER SERVICE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR ANY SHUTDOWN LASTING LONGER THAN FOUR (4) HOURS. METHOD OF PROVIDING TEMPORARY SERVICE MUST BE APPROVED BY THE WATER RESOURCES DIVISION. THE WATER SHALL BE SAFE FOR DRINKING IN ACCORDANCE WITH STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB) DRINKING WATER PROGRAM (DWP).
12. WATER METER WILL NOT BE INSTALLED NOR WATER TURNED ON UNTIL THE BACKFLOW DEVICES REQUIRED FOR THE BUILDING AND IRRIGATION SYSTEMS HAVE BEEN INSTALLED, TESTED, APPROVED, AND CERTIFIED, AND APPROVED AND SIGNED OFF BY THE CITY. CONTACT WATER RESOURCES DIVISION AT 714-647-3320.
13. ALL WATER MAINS SHALL BE AWWA C-900 PVC, DR14 PIPE OR AWWA C-151 DUCTILE IRON PIPE. ALL OTHER PIPE MATERIALS REQUIRE SPECIAL REVIEW AND APPROVAL FROM THE WATER RESOURCES DIVISION.
14. WATER MAINS SHALL HAVE 36"MINIMUM COVER TO FINISHED GRADE. ANY DEVIATION FROM THIS REQUIREMENT REQUIRES APPROVAL FROM THE WATER RESOURCES DIVISION.
15. CONTRACTOR TO VERIFY DEPTH AND LOCATION OF ALL UTILITIES AND POINTS OF CONNECTION PRIOR TO TRENCHING.
16. PRIVATE WATER APPURTENANCES SUCH AS BACKFLOW PREVENTERS, FIRE HYDRANTS AND STANDPIPES, AND VALVES SHALL BE PAINTED AS FOLLOWS:
    a. DOMESTIC WATER: BLUE
    b. POTABLE IRRIGATION: GREEN
    c. RECYCLED IRRIGATION: PURPLE
    d. FIRE PROTECTION: OSHA SAFETY RED
17. DO NOT CUT OR SNAP CUT OR MILL ASBESTOS CEMENT PIPE. WHERE JOINING EXISTING ASBESTOS CEMENT PIPE, EXPOSE SIX FEET IN EACH DIRECTION, LOOKING FOR THE NEAREST JOINT AND JOIN TO NEW PIPE WITH A PROPERLY DIMENSIONED ADAPTER PER STANDARD PLAN NUMBER 1443.
18. DO NOT TAP EXISTING MAINS WITHOUT THE PRESENCE OF A CERTIFIED PUBLIC WORKS INSPECTOR. PRESSURE TEST TAPPING SLEEVE IN THE PRESENCE OF A CERTIFIED PUBLIC WORKS INSPECTOR BEFORE TAPPING EXISTING MAIN.
19. FINAL ACCEPTANCE WILL NOT OCCUR UNTIL ORIGINAL RECORD DRAWINGS ON MYLAR AND DIGITAL FILE ARE DELIVERED TO AND ACCEPTED BY THE CITY'S INSPECTOR. SHOW ALL FIELD CHANGES ON RECORD DRAWINGS.
20. TRENCH PLATES SHALL BE FLUSH WITH PAVEMENT AND SHALL BE NON-SKID.
21. WHEN PUBLIC WATER FACILITIES ARE LOCATED ON PRIVATE PROPERTY, EASEMENT DOCUMENTS ARE TO BE SUBMITTED TO CITY FOR APPROVAL PRIOR TO A PERMIT BEING ISSUED.
22. ALL RECYCLED WATER PROJECTS REQUIRE REVIEW AND APPROVAL BY THE WATER RESOURCES DIVISION.
23. REMOVE FROM THE FIELD UPPER AND LOWER FIRE HYDRANT DRY BARREL AND 24" X 36" IRON VAULT LID COVERS AND DELIVER UNDAMAGED TO THE CITY WATER RESOURCES DIVISION YARD LOCATED AT 215 S. CENTER STREET. PRIOR NOTIFICATION OF THE DELIVERY IS REQUIRED AT 714-647-3320.
24. WATER MAIN FITTINGS SHALL BE FLANGE OR MECHANICAL JOINTS ONLY, NO PUSH-ON JOINT FITTINGS ALLOWED.
25. CONTRACTOR SHALL NOT REMOVE OR DISPOSE EXISTING WATER METERS. CONTRACTOR SHALL APPLY FOR AN ABANDON WATER METER APPLICATION. CONTRACTOR SHALL CONTACT WATER RESOURCES DIVISION AT 714-647-3320 FOR EXISTING METER REMOVALS.
26. INSTALLATION OF NEW WATER METER SERVICE CURB STOP SHALL BE DONE AFTER INSTALLATION OF NEW CURB AND GUTTER OR AFTER CONTRACTOR HAS ESTABLISHED THE PROPOSED CURB GRADE BY STAKING OF THE PROPOSED CURB.

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

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FILE NO.:

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**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
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THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL

REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

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# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

PUBLIC GENERAL NOTES

SHEET NO. C2.1

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

## GENERAL EROSION CONTROL NOTES

1. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
2. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND MUST NOT CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
4. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
5. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
6. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR ANY OTHER MEANS.
7. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
8. STORM WATER POLLUTION CONTROL REQUIREMENTS MUST BE INTEGRATED ONTO THE EROSION CONTROL PLANS FOR ANY CONSTRUCTION BETWEEN OCTOBER 1 AND APRIL 15. THE FOLLOWING NOTES AND BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORM WATER QUALITY TASK FORCE. SACRAMENTO, CALIFORNIA 1993, OR THE LATEST REVISED EDITION MAY APPLY DURING THE CONSTRUCTION OF PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTIONS).
9. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE CONTRACTOR AND/OR THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES.
10. ALL STANDARDS REFERENCED FROM 2018 CASQA CONSTRUCTION BMP BOOK.

## MAINTENANCE NOTES

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE CHECKED BY A QUALIFIED PERSON ON A SCHEDULE THAT MEETS OR EXCEEDS THE GOVERNING REQUIREMENTS, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
2. FILTREXX SILTSOXXS OR APPROVED EQUAL SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE FILTREXX SILTSOXXS OR APPROVED EQUAL WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FILTREXX SILTSOXX OR APPROVED EQUAL.
3. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
4. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER.

## LEGEND

- CENTER LINE
- PROPERTY LINE
- APPROXIMATE CIVIL LIMIT OF WORK LINE
- FILTEXX SILTSOXX OR APPROVED EQUAL
- CONSTRUCTION FENCE WITH GREEN SCREEN
- PROPOSED STORM DRAIN LINES
- PROPOSED STORM DRAIN INLET
- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- STOCKPILE AREA
- SANITARY AREA, TRASH STORAGE, HAZARDOUS MATERIAL, CONCRETE MANAGEMENT, VEHICLE MAINTENANCE AND EQUIPMENT STORAGE AREA
- MATERIAL STORAGE AND DELIVERY
- DIRECTION OF FLOW

## BMP NOTES

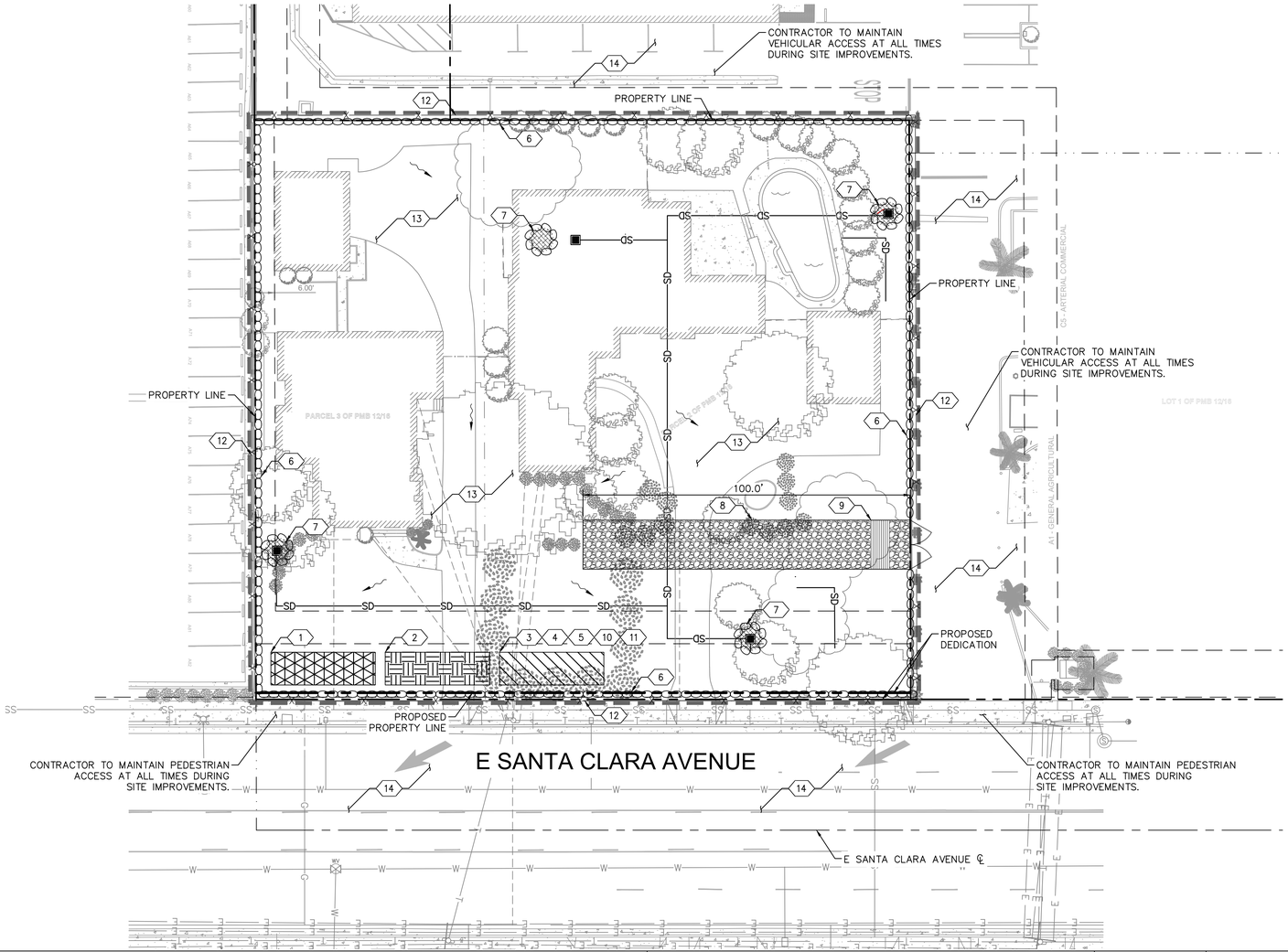
THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BMP HANDBOOK DATED NOVEMBER 2018, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED AS NEEDED:

EC-1, SCHEDULING
EC-2, PRESERVATION OF EXISTING VEGETATION
WE-1, WIND EROSION CONTROL
NS-1, WATER CONSERVATION PRACTICES
NS-3, PAVING AND GRINDING OPERATIONS
NS-7, POTABLE WATER/IRRIGATION
NS-12, CONCRETE CURING
NS-13, CONCRETE FINISHING
WM-4, SPILL PREVENTION AND CONTROL
WM-7, CONTAMINATED SOIL MANAGEMENT
WM-9, SANITARY/SEPTIC WASTE MANAGEMENT
WM-10, LIQUID WASTE MANAGEMENT
SE-7, STREET SWEEPING AND VACUUMING

CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL AND PEDESTRIAN CONTROL WHILE PERFORMING WORK IN THE PUBLIC RIGHT-OF-WAY.

SITE PREPARATION SHOULD BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION

CONTRACTOR TO USE BEST MANAGEMENT PRACTICES TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.




## EROSION CONTROL NOTES

1. WM-1, MATERIAL DELIVERY AND STORAGE.
2. WM-3, STOCKPILE MANAGEMENT, CONTRACTOR TO SET UP STOCKPILE AREA.
3. WM-5, SANITARY AREA.
4. WM-6, HAZARDOUS WASTE MANAGEMENT.
5. WM-8, CONCRETE WASTE MANAGEMENT.
6. SE-5, INSTALL FILTREXX SILTSOXX OR APPROVED EQUAL. REFER TO SHEET C3.1 FOR MORE INFORMATION.
7. SE-10, STORM DRAIN INLET PROTECTION. INSTALL PIG SEDIMENT DRAIN INLET FILTER AT ALL DROP INLETS AND ERTEC CURB INLET GUARD AT CURB INLETS OR APPROVED EQUAL.
8. TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT; REFER TO DETAIL 1, SHEET C3.1.
9. TC-3, ENTRANCE/OUTLET TIRE WASH; REFER TO DETAIL 2, SHEET C3.1.
10. NS-10, VEHICLE AND EQUIPMENT MAINTENANCE.
11. SD-32, TRASH STORAGE AREA.
12. CONSTRUCTION FENCE WITH GREEN SCREEN
13. WE-1, WIND EROSION CONTROL
14. SE-7, VACUUM SWEEPING OF ADJACENT STREETS.

## SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

PHASE 1:
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1) AND CHAIN LINK FENCE WITH GREEN SCREEN AND THEN FILTREXX SILTSOXX OR APPROVED EQUAL (OR GRAVEL BAGS) WHERE SHOWN ON PLAN.
2. INSTALL INLET PROTECTION AT EXISTING INLET(S).
3. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

PHASE 2:
4. PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
5. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
6. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.

SEQUENCE OF CONSTRUCTION GENERAL NOTE:
THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE
(24" X 36")

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

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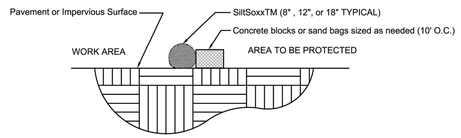
# PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

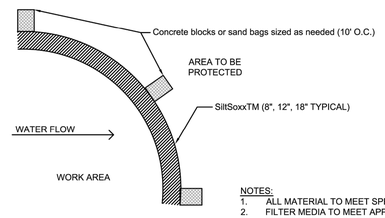
EROSION CONTROL PLAN

SHEET NO. C3.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




**SECTION** NTS



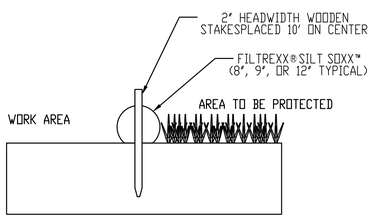

NOTES:
1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

**PLAN** NTS

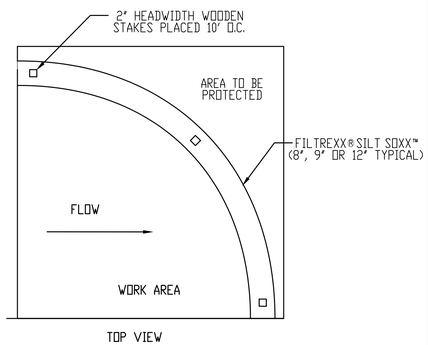
## SiltSoxxTM for Sediment Control on Pavement

NTS

## FILTREXX® SILT SOXX™

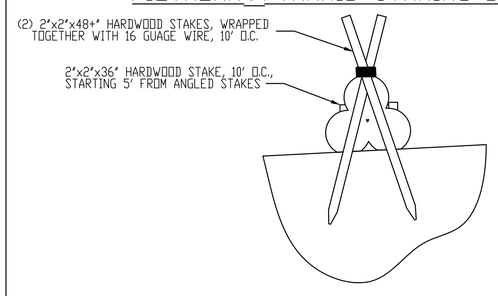



SECTION VIEW

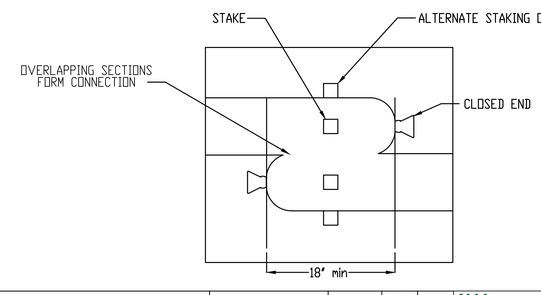



TOP VIEW

## FILTREXX® PYRAMID STAKING DETAIL




## COMPOST SOCK CONNECTION/ATTACHMENT DETAIL




NOTES:
1. ALL MATERIAL TO MEET FILTREXX®SPECIFICATIONS.
2. SILT SOXX™FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

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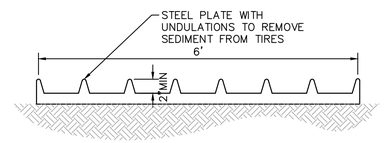
DIMENSIONS ARE IN INCHES
ANGULAR: BEND ± 2°
TWO PLACE DECIMAL ± .015
THREE PLACE DECIMAL ± .005
DO NOT SCALE DRAWING

| | NAME | DATE |
|---|---|---|
| DRAWN | DAN | 6/11/2013 |
| CHECKED | | |
| ECO | | |

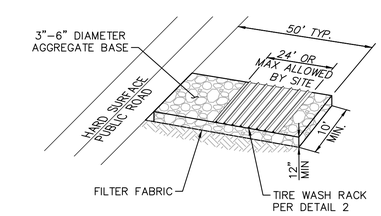
filtrexx® GROW IMPROVEMENT DIVISION — let nature do it.
FILTREXX INTERNATIONAL 2828 CHARTER CHURCH RD. EAST FOR, IN 46041 800.790.1083 WWW.FILTREXX.COM

SIZE D | TITLE FILTREXX®SILT SOXX™& SEDIMENT TRAPS™ DETAILS | REV. NC
DWG/PART NO. | SHEET 1 OF 1




STEEL PLATE DETAIL

TIRE WASH RACK (2)
N.T.S.




NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

STABILIZED CONSTRUCTION ENTRANCE (1)

Underground Service Alert of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

ENGINEERS SEAL: REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO — SENIOR CIVIL ENGINEER RCE NO.: 90371 — DATE 6/29/2023
DESIGNED: HS DRAWN: MH CHECKED: HS

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL — PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 — DATE XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

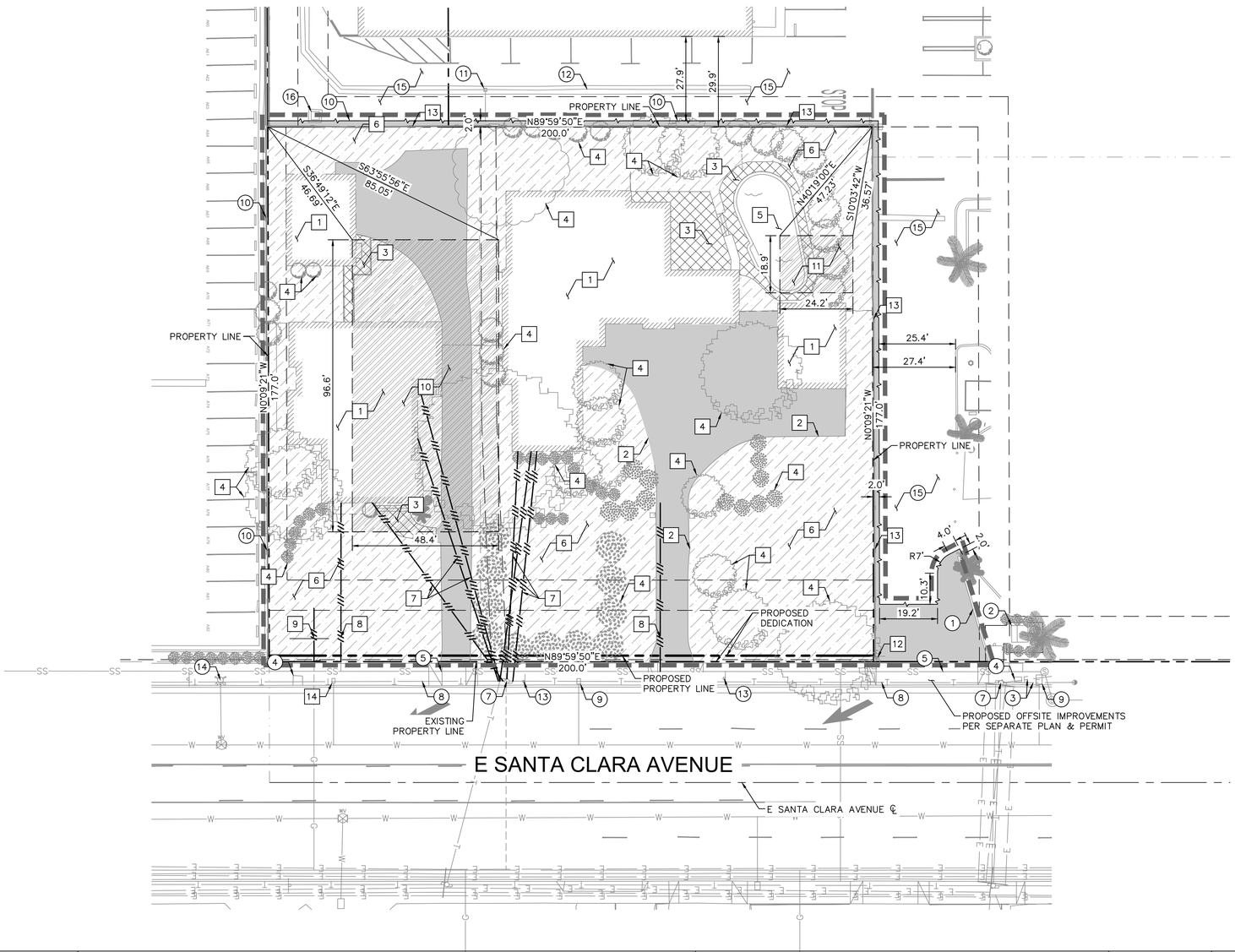
EROSION CONTROL DETAILS

SHEET NO. C3.1

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

## GENERAL DEMOLITION NOTES

1. THE CONTRACTOR SHALL CLEAR THE PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL CAP IN PLACE ALL EXISTING UTILITIES AT THE DEMOLITION LIMIT LINE, UNLESS NOTED ON THE PLAN. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITY STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
2. DEMOLITION AND REMOVAL OF PAVEMENT INCLUDES PAVEMENT THICKNESS AS WELL AS BASE COURSE THICKNESS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF DEMOLITION WORK.
6. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
7. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
8. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
9. DUST CONTROL MEASURES SHALL BE IMPLEMENTED DURING DEMOLITION.
10. DEMOLITION IS LIMITED TO WITHIN THE DEMOLITION LIMIT LINE UNLESS OTHERWISE NOTED.
11. CONTRACTOR SHALL REMOVE DEMOLISHED MATERIALS FROM THE SITE AS WORK PROGRESSES.
13. ALL DEMOLITION SHALL COMPLY WITH CHAPTER 24 AND ARTICLE 87 OF THE CALIFORNIA FIRE CODE.
14. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
15. SEE SHEET C3.0 FOR REMAINING INLET PROTECTION AND EROSION PREVENTION.
16. CONTRACTOR TO INSTALL CHAIN LINK FENCE WITH MESH SCREEN TO PROTECT PUBLIC FROM ENTERING CONSTRUCTION AREA.
17. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES.
18. ALL MATERIAL REMOVED FROM THIS SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
19. REFER TO THE TOPOGRAPHIC SURVEY FOR ADDITIONAL DETAILS OF EXISTING STRUCTURES, ETC., LOCATED WITHIN THE PROJECT SITE. UNLESS OTHERWISE NOTED, ALL EXISTING BUILDINGS, STRUCTURES, SLABS, CONCRETE, ASPHALT, DEBRIS PILES, SIGNS, AND ALL APPURTENANCES ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND PROPERLY DISPOSED OF IN A LEGAL MANNER AS PART OF THIS CONTRACT. SOME ITEMS TO BE REMOVED MAY NOT BE DEPICTED ON THE TOPOGRAPHIC SURVEY. REFER TO THIS PLAN FOR THE LIMITS OF ASPHALT REMOVAL. IF ANY ITEMS ARE IN QUESTION, THE CONTRACTOR SHALL CONTACT THE OWNER PRIOR TO REMOVAL OF SAID ITEMS.
20. THE CONTRACTOR SHALL REFER TO THIS PLAN AND LANDSCAPE PLAN FOR DEMOLITION/PRESERVATION OF EXISTING TREES. ALL TREES NOT SPECIFICALLY SHOWN TO BE PRESERVED OR RELOCATED SHALL BE REMOVED AS A PART OF THIS CONTRACT. TREE PROTECTION FENCING SHALL BE INSTALLED AS NECESSARY PRIOR TO ANY DEMOLITION.
21. CONTRACTOR SHALL ADJUST GRADE OF ANY RIMS/COVERS TO THE FINISHED ELEVATIONS OF EXISTING UTILITIES TO REMAIN.
22. ALL EXISTING UTILITIES SHALL BE DEMOLISHED AND CAPPED AT THE PROPERTY LINE.
23. REFER TO DEMOLITION NOTES ON SHEET C2.0




## LEGEND

| | |
|---|---|
| | CENTER LINE |
| | PROPERTY LINE |
| | RIGHT-OF-WAY LINE / LEASE LINE |
| | EASEMENT LINE / SETBACK LINE |
| | APPROXIMATE DEMOLITION LIMIT LINE ON-SITE |
| X | CONSTRUCTION FENCE WITH GREEN SCREEN |
| SD | EXISTING STORM DRAIN LINE |
| SS | EXISTING SEWER LINE |
| G | EXISTING GAS LINE |
| W | EXISTING WATER LINE |
| E | EXISTING ELECTRICAL LINE |
| T | EXISTING TELECOMMUNICATION LINE |
| OH COMM | EXISTING OVERHEAD COMMUNICATION LINE |
| | DEMOLISH EXISTING UTILITY |
| | LIMITS OF EARTHWORK PREPARATION FOR PROPOSED BUILDING AND SITE WALLS, WITH LATERAL OFFSET OF 2 FEET. REFER TO EARTHWORK SECTION OF GEOTECHNICAL REPORT, PAGE 6 FOR MORE INFORMATION. |
| | EXISTING ASPHALT PAVEMENT TO BE REMOVED |
| | EXISTING LANDSCAPE TO BE REMOVED |
| | EXISTING CONCRETE PAVEMENT TO BE REMOVED |

## DEMOLITION NOTES

1. REMOVE EXISTING BUILDING AND SURROUNDING FEATURES. UTILITIES TO BE CAPPED FOR FUTURE CONNECTION. FOUNDATION REMOVALS PER GEOTECHNICAL REPORT.
2. REMOVE EXISTING CURB / CURB & GUTTER.
3. REMOVE EXISTING CONCRETE.
4. REMOVE EXISTING TREE. CONTRACTOR TO CONFIRM WITH LANDSCAPE PLAN ON LIMITS OF LANDSCAPE DEMOLITION.
5. REMOVE EXISTING POOL.
6. REMOVE EXISTING LANDSCAPE AND ALL IRRIGATION LINES, DRIPS, VALVES AND ASSOCIATED EQUIPMENT AS REQUIRED. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION ON LIMITS OF LANDSCAPE REMOVAL. CONTRACTOR TO FIELD CONFIRM IRRIGATION ROUTING AND COORDINATE SHUTDOWNS/REROUTES/RELOCATIONS WITH ONSITE SHOPPING CENTER MAINTENANCE PERSONNEL.
7. REMOVE EXISTING TELECOMMUNICATION LINE.
8. REMOVE EXISTING SANITARY SEWER LINE.
9. REMOVE EXISTING GAS LINE.
10. LIMITS OF EARTHWORK PREPARATION FOR PROPOSED BUILDING (INCLUDES 5' LATERAL DISTANCE BEYOND PERIMETER OF PROPOSED BUILDING).
11. LIMITS OF EARTHWORK PREPARATION FOR PROPOSED TRASH ENCLOSURE FOOTPRINT (INCLUDES 5' LATERAL DISTANCE BEYOND PERIMETER OF PROPOSED TRASH ENCLOSURE).
12. REMOVE EXISTING SIGN.
13. REMOVE EXISTING CMU WALL.
14. REMOVE EXISTING WATER METER

## PROTECTION NOTES

1. PROTECT-IN-PLACE EXISTING CURB.
2. PROTECT-IN-PLACE EXISTING TRANSFORMER AND ELECTRICAL APPURTENANCES.
3. PROTECT-IN-PLACE EXISTING ELECTRICAL LINE.
4. PROTECT-IN-PLACE EXISTING TELECOM CABINET.
5. PROTECT-IN-PLACE EXISTING SANITARY SEWER LINE.
6. PROTECT-IN-PLACE EXISTING GAS LINE.
7. PROTECT-IN-PLACE EXISTING POWER POLE.
8. PROTECT-IN-PLACE EXISTING TELECOMMUNICATION LINE.
9. PROTECT-IN-PLACE EXISTING WATER LINE AND WATER APPURTENANCES.
10. PROTECT-IN-PLACE EXISTING CMU WALL.
11. PROTECT-IN-PLACE EXISTING STORM DRAIN INLET.
12. PROTECT-IN-PLACE EXISTING VALLEY GUTTER.
13. PROTECT-IN-PLACE EXISTING SIGN.
14. PROTECT-IN-PLACE EXISTING FIRE HYDRANT.
15. PROTECT-IN-PLACE EXISTING ASPHALT CONCRETE.
16. PROTECT-IN-PLACE EXISTING ELECTRICAL VAULT.

## EXISTING UTILITY NOTE

THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON AVAILABLE RECORDS. THE CONTRACTOR MUST FIELD DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED UTILITIES TO ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.

## IRRIGATION NOTE

CONTRACTOR TO CAP EXISTING IRRIGATION SYSTEM AND REMOVE IRRIGATION SYSTEM AS NEEDED FOR NEW CONSTRUCTION. CONTRACTOR TO MAINTAIN THAT KOHL'S IRRIGATION WILL CONTINUE TO WORK PROPERLY AFTER DEMOLITION OF LINES WITHIN THE CONSTRUCTION AREA.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE
(24" X 36")

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NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO — SENIOR CIVIL ENGINEER RCE NO.: 90371 — DATE 6/29/2023
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# PROPOSED DRIVE-THRU RESTAURANT

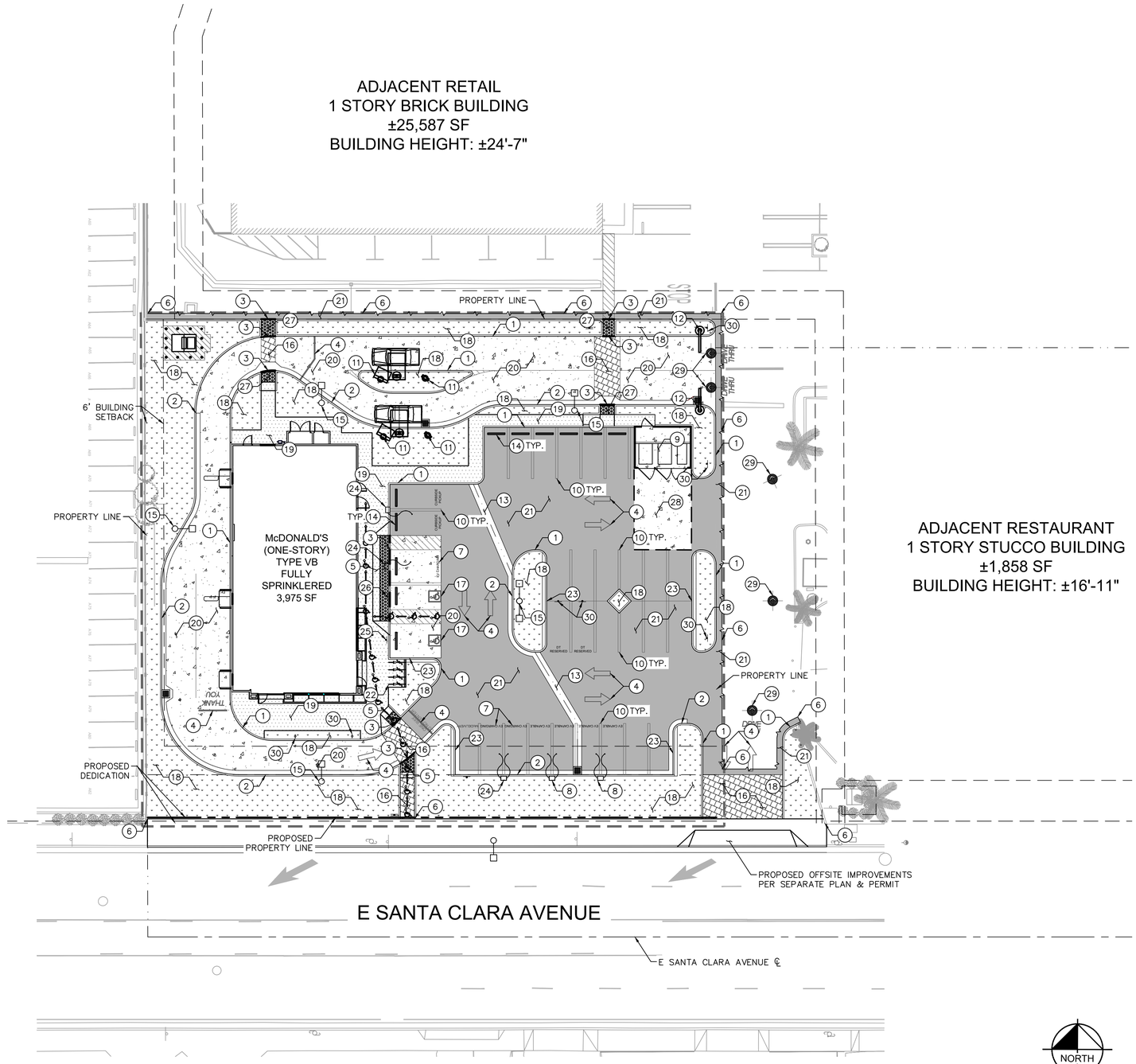
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

DEMOLITION PLAN

SHEET NO. C4.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




## LEGEND

- CENTER LINE
- PROPERTY LINE
- DEDICATION LINE
- EASEMENT LINE / SETBACK LINE
- APPROXIMATE LIMIT OF WORK LINE
- 0" CURB FACE
- PROPOSED LIGHT POLE. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.
- (X) PARKING STALL COUNT
- STANDARD DUTY CONCRETE PAVEMENT. SECTION PER DETAIL 1, SHEET C8.0. SCORING PATTERN AND FINISH PER LANDSCAPING PLAN.
- HEAVY DUTY CONCRETE PAVEMENT. THICKENED EDGE PER DETAIL 2, SHEET C8.0 AT ALL EDGE CONDITIONS. PRIOR TO BIDDING, CONTRACTOR SHALL CONFIRM WITH MCDONALD'S OWNER/OPERATOR AND/OR MCDONALD'S AREA CONSTRUCTION MANAGER IF DRIVE-THROUGH CONCRETE WILL BE STAINED. IF DRIVE-THROUGH CONCRETE WILL BE STAINED, CONTRACTOR SHALL USE JET BLACK BY DAVIS COLORS OR SPECIFICATION PER OWNER OR ACM.
- LANDSCAPE/PLANTER AREA. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION.
- HEAVY DUTY ASPHALT PAVEMENT. SECTION PER DETAIL 1, SHEET C8.0.
- DETECTABLE WARNING SYSTEM
- ENHANCED DECORATIVE PAVING

## CONSTRUCTION NOTES

1. CONSTRUCT CONCRETE CURB PER DETAIL 4, SHEET C8.0.
2. CONSTRUCT CONCRETE CURB AND GUTTER PER DETAIL 6, SHEET C8.0.
3. CONSTRUCT 0" CONCRETE CURB PER DETAIL 5, SHEET C8.0.
4. INSTALL PAVEMENT MARKING ARROW PER DETAIL 10, SHEET C8.0.
5. CONSTRUCT ACCESSIBLE CURB RAMP PER DETAIL 10, SHEET C8.1. INSTALL CAST IN PLACE DETECTABLE WARNING SYSTEM (TRUNCATED DOMES) PER ARMOR TILE – 36" X 48" PANEL. PRODUCT NO. ADA-C-3648W. SEE DETAIL 15, SHEET C8.0
6. JOIN EXISTING CURB, CURB & GUTTER, SIDEWALK, PAVEMENT.
7. INSTALL "EV CHARGING" IN 12" HIGH WHITE LETTERING AT THE BASE OF THE PARKING STALL
8. FUTURE E/V CHARGING STATION. CONDUIT TO BE RAN TO STALL FOR FUTURE CONNECTION.
9. INSTALL COVERED TRASH ENCLOSURE AND RECYCLING BIN STORAGE. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
10. INSTALL STANDARD 90° PARKING STALL STRIPING PER DETAIL 7, SHEET C8.0.
11. INSTALL DRIVE THROUGH EQUIPMENT. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
12. INSTALL HEIGHT DETECTOR POLE. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
13. CONSTRUCT VALLEY GUTTER PER DETAIL 13, SHEET C8.0. WIDTH PER PLAN
14. INSTALL 6' WIDE WHEEL STOP AT 2.0' FROM FACE OF WHEEL STOP TO FACE OF CURB. PER DETAIL 9, SHEET C8.0.
15. INSTALL SITE LIGHTING. REFER TO ARCHITECTURAL PLANS FOR MORE DETAILS.
16. INSTALL ENHANCED DECORATIVE PAVING PER DETAIL 1, SHEET C8.0 AND FINISH PER ARCHITECTURAL PLANS.
17. INSTALL ACCESSIBLE PARKING STALL STRIPING PER DETAIL 9, SHEET C8.1
18. LANDSCAPE/PLANTER AREA. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION.
19. INSTALL STANDARD DUTY CONCRETE SIDEWALK PER DETAIL 1, SHEET C8.0.
20. INSTALL HEAVY DUTY CONCRETE PAVEMENT, SECTION PER DETAIL 1, SHEET C8.0. THICKENED EDGE DETAIL PER DETAIL 2, SHEET C8.0 AT ALL EDGE CONDITIONS.
21. INSTALL HEAVY DUTY ASPHALT CONCRETE PAVEMENT, SECTION PER DETAIL 1, SHEET C8.0.
22. INSTALL SHORT-TERM BIKE RACK PER DETAIL 7, SHEET C8.1
23. INSTALL 18" WALK-OFF CURB PER DETAIL 8, SHEET C8.0.
24. INSTALL PULL BOX FOR FUTURE INSTALLATION OF EV CHARGING STATION. CONDUIT TO BE INSTALLED FROM BUILDING SERVICE PANEL TO EV CHARGING STATION FOR FUTURE INSTALLATION. REFER TO MEP PLANS FOR MORE INFORMATION.
25. INSTALL VAN ACCESSIBLE PARKING STALL SIGN PER DETAIL 12, SHEET C8.0. SIGN BASE POST PER DETAIL 11, SHEET C8.1
26. INSTALL STANDARD ACCESSIBLE PARKING STALL SIGN PER DETAIL 12, SHEET C8.0. SIGN BASE POST PER DETAIL 11, SHEET C8.1
27. INSTALL CAST IN PLACE DETECTABLE WARNING SYSTEM (TRUNCATED DOMES) PER ARMOR TILE – 36" X 48" PANEL. PRODUCT NO. ADA-C-3648W. SEE DETAIL 15, SHEET C8.0
28. TRASH ENCLOSURE APPROACH TO BE HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 3, SHEET C8.0. CONCRETE REINFORCEMENT AND JOIN ASPHALT CONCRETE PER DETAIL 3, SHEET C8.0.
29. DRIVE THROUGH STRIPING PER ARCHITECTURAL PLANS.
30. INSTALL PARKING SIGNAGE PER ARCHITECTURAL PLANS.

## PAVING AND JOINTING NOTES

1. EXPANSION/ISOLATION JOINTS SHALL BE PLACED BETWEEN BUILDING AND CURBS. SEE DETAIL 4, SHEET C8.1.
2. CONTROL JOINT SPACING SHALL BE PER GEOTECHNICAL REPORT.
3. EXPANSION/ISOLATION JOINTS SHALL BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT (LIGHT POLES, RETAINING WALLS, EXISTING CONCRETE PAVEMENT, BUILDING WALLS, MANHOLES, ETC) AND SEALED WITH POLYURETHANE SEALANT. SEE DETAIL 4, SHEET C8.1.
4. SAW-CUT CONTROL JOINTS WITHIN 12 HOURS OF POUR.
5. CONSTRUCTION JOINTS SHALL BE PER DETAIL 3, SHEET C8.1.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT PERMANENT PAVEMENT IS NOT PLACED UNTIL ALL REQUIRED CONDUITS AND SLEEVING FOR IRRIGATION, UTILITIES, LIGHTING, ETC. HAVE BEEN PROPERLY INSTALLED.
7. DRIVE-THROUGH CONCRETE PAVEMENT REINFORCEMENT, IF REQUIRED, SHALL BE PER GEOTECHNICAL REPORT.

NORTH

GRAPHIC SCALE IN FEET
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1" = 20'
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PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

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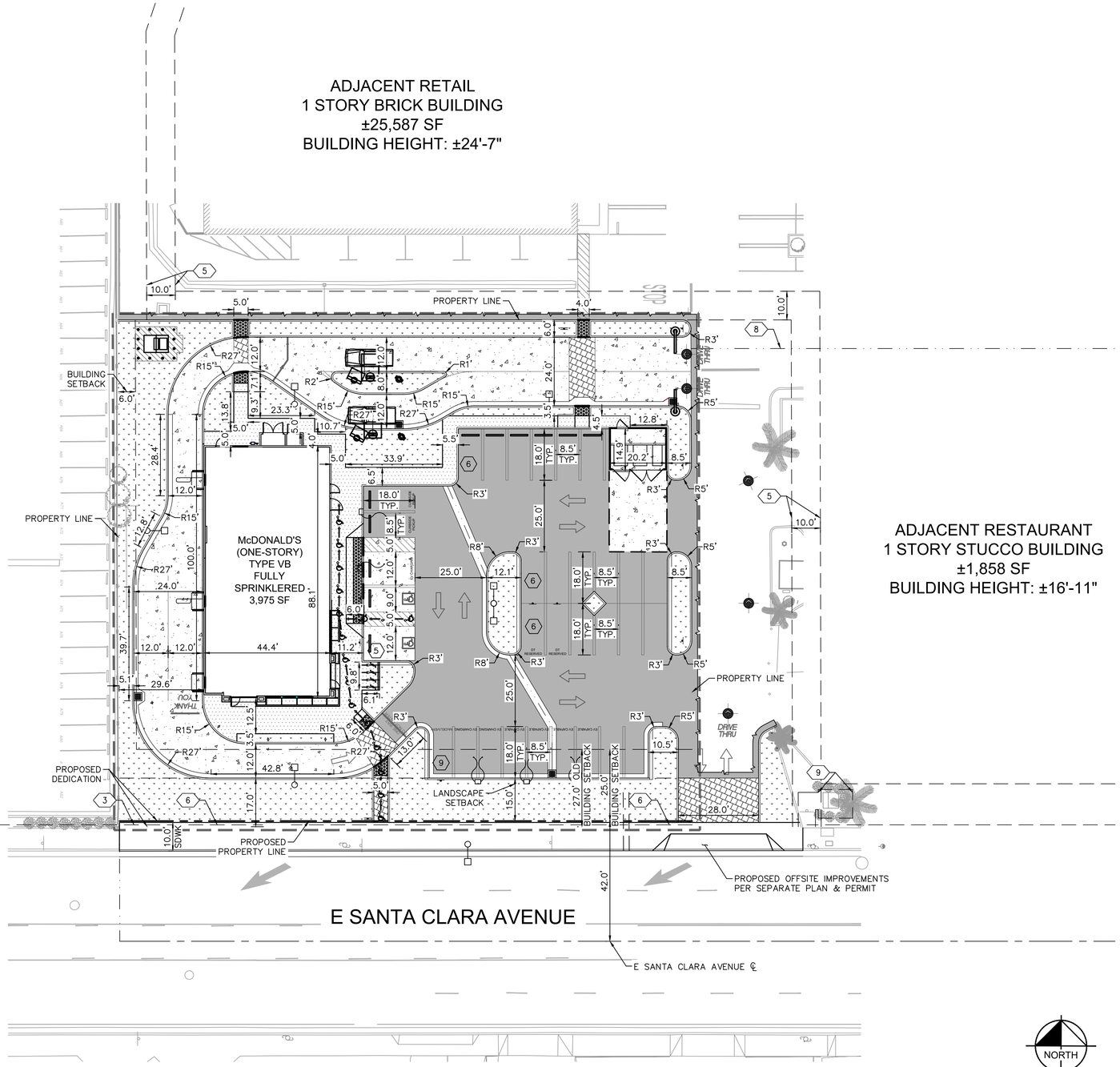
# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

SITE KEYNOTE PLAN

SHEET NO. C5.0

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- (X) PARKING STALL COUNT
- STANDARD DUTY CONCRETE PAVEMENT. SECTION PER DETAIL 1, SHEET C8.0. SCORING PATTERN AND FINISH PER LANDSCAPING PLAN.
- HEAVY DUTY CONCRETE PAVEMENT. THICKENED EDGE PER DETAIL 2, SHEET C8.0 AT ALL EDGE CONDITIONS. PRIOR TO BIDDING, CONTRACTOR SHALL CONFIRM WITH MCDONALD'S OWNER/OPERATOR AND/OR MCDONALD'S AREA CONSTRUCTION MANAGER IF DRIVE-THROUGH CONCRETE WILL BE STAINED. IF DRIVE-THROUGH CONCRETE WILL BE STAINED, CONTRACTOR SHALL USE JET BLACK BY DAVIS COLORS OR SPECIFICATION PER OWNER OR ACM.
- LANDSCAPE/PLANTER AREA. REFER TO LANDSCAPE PLANS FOR MORE INFORMATION.
- HEAVY DUTY ASPHALT PAVEMENT. SECTION PER DETAIL 1, SHEET C8.0.
- GRIND AND RECAPPING OF 2"-3" RUBBERIZED ASPHALT CONCRETE
- DETECTABLE WARNING SYSTEM
- ENHANCED DECORATIVE PAVING

## TITLE REPORT EXCEPTIONS

(3) THE OWNERSHIP OF SAID LAND DOES NOT INCLUDE RIGHTS OF ACCESS TO OR FROM THE STREET, HIGHWAY, OR FREEWAY ABUTTING SAID LAND, SUCH RIGHTS HAVING BEEN RELINQUISHED BY THE DOCUMENT,

RECORDING DATE: AUGUST 15, 1967
RECORDING NO: BOOK 8341, PAGE 582, OF OFFICIAL RECORDS
AFFECTS: PROPERTY ABUTTING E. SANTA CLARA AVENUE. (AFFECTS, PLOTTABLE AS SHOWN)

(5) EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY
PURPOSE: UNDERGROUND ELECTRICAL SUPPLY SYSTEMS AND COMMUNICATION SYSTEMS AND ABOVE GROUND UTILITIES AND INCIDENTAL PURPOSES
RECORDING DATE: JUNE 9, 1970
RECORDING NO: BOOK 9311, PAGE 361, OF OFFICIAL RECORDS
AFFECTS: HEREIN DESCRIBED LAND. (AFFECTS, PLOTTABLE AS SHOWN)

(6) THE OWNERSHIP OF SAID LAND DOES NOT INCLUDE RIGHTS OF ACCESS TO OR FROM THE STREET, HIGHWAY, OR FREEWAY ABUTTING SAID LAND, SUCH RIGHTS HAVING BEEN RELINQUISHED BY THE DOCUMENT,

RECORDING DATE: OCTOBER 7, 1970
RECORDING NO: BOOK 9425, PAGE 183, OF OFFICIAL RECORDS
AFFECTS: PROPERTY ABUTTING E. SANTA CLARA AVENUE. (AFFECTS, PLOTTABLE AS SHOWN)

(8) AN UNRECORDED LEASE WITH CERTAIN TERMS, COVENANTS, CONDITIONS AND PROVISIONS SET FORTH THEREIN AS DISCLOSED BY THE DOCUMENT

ENTITLED: MEMORANDUM OF REAL PROPERTY BUILD TO SUIT LEASE
LESSOR: LEE J. HASENJAEGER AND LELAND FINLEY
LESSEE: DEL TACO, INC., A CALIFORNIA CORPORATION
RECORDING DATE: MAY 2, 1978
RECORDING NO: BOOK 12658, PAGE 1472, OF OFFICIAL RECORDS (AFFECTS, PLOTTABLE AS SHOWN)

(9) EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

GRANTED TO: SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION
PURPOSE: UNDERGROUND ELECTRICAL SUPPLY SYSTEMS AND COMMUNICATION SYSTEMS AND ABOVE GROUND UTILITIES AND INCIDENTAL PURPOSES
RECORDING DATE: FEBRUARY 9, 1979
RECORDING NO: BOOK 13031, PAGE 771, OF OFFICIAL RECORDS
AFFECTS: PARCEL 1 OF PARCEL B. (AFFECTS, PLOTTABLE AS SHOWN)

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE
(24" X 36")

Underground Service Alert
of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH W. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION UNTIL SIGNED

| | | DATE |
|---|---|---|
| PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO | SENIOR CIVIL ENGINEER RCE NO.: 90371 DESIGNED: HS DRAWN: MH CHECKED: HS | 6/29/2023 |
| REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL | PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 | XX/YYYY |

# PROPOSED DRIVE-THRU RESTAURANT

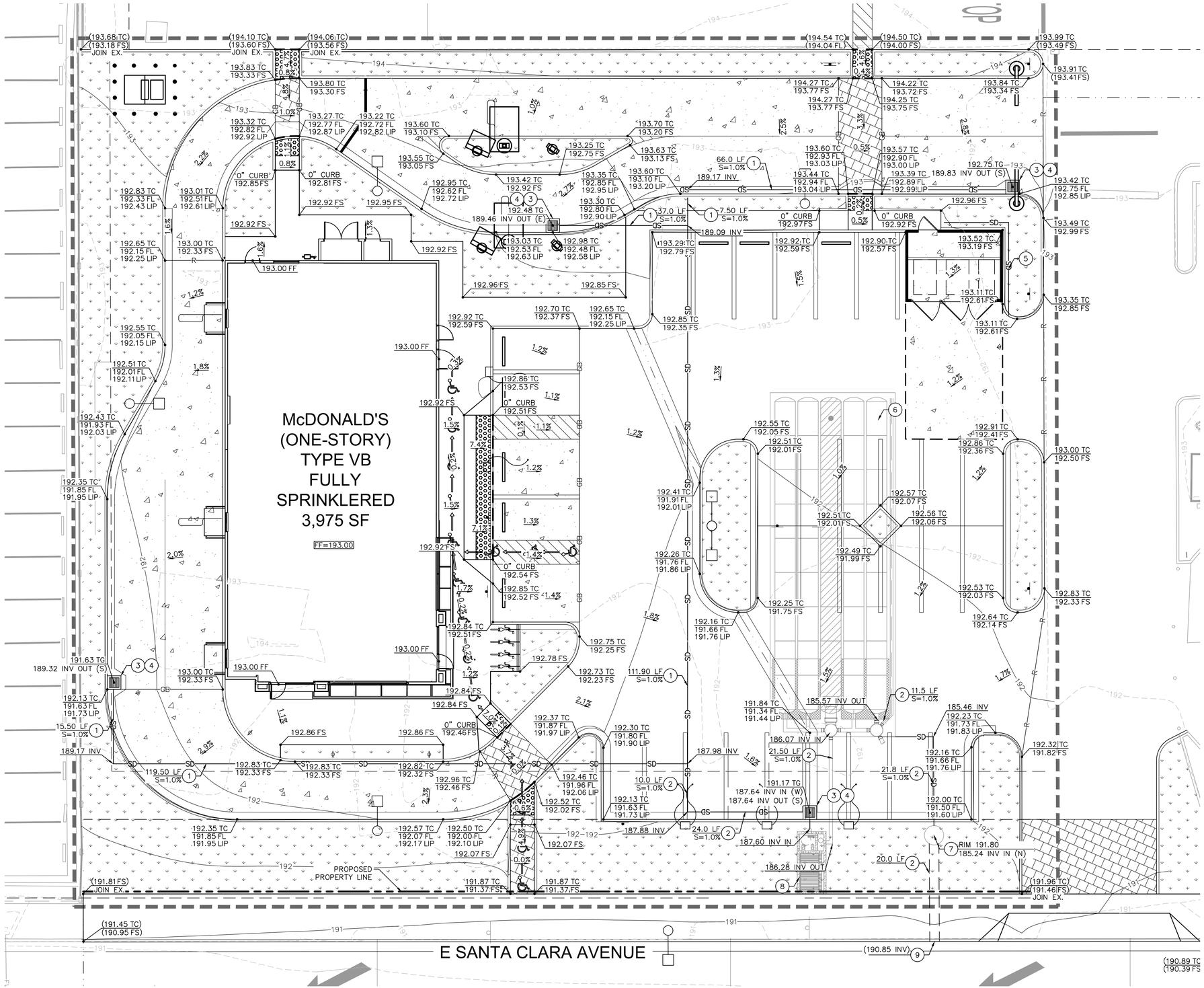
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

HORIZONTAL CONTROL PLAN

SHEET NO. C5.1

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




## LEGEND

- CENTERLINE
- PROPERTY LINE
- EASEMENT / SETBACK LINE
- APPROXIMATE CIVIL LIMIT OF WORK LINE
- SD — PROPOSED STORM DRAIN PIPE
- GB — GRADE BREAK LINE
- R — RIDGE LINE
- FLOW LINE
- XXX.XX TC / XXX.XX FS — PROPOSED SPOT ELEVATION
- (XXX.XX TC) / (XXX.XX FS) — EXISTING SPOT ELEVATION
- X.XX% — PROPOSED FLOW (DIRECTION AND SLOPE)
- LANDSCAPE AREA

## GRADING AND DRAINAGE NOTES

1. INSTALL 6" SDR-26 PVC STORM DRAIN PIPE AT 0.5% MIN. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.
2. INSTALL 8" SDR-26 PVC STORM DRAIN PIPE AT 0.5% MIN. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.
3. PAINT "NO DUMPING-DRAINS TO OCEAN" ON CURB ADJACENT TO CATCH BASIN PER DETAIL 2, SHEET C8.1
4. INSTALL 24" X 24" JENSEN PRECAST DROP INLET. ALL DROP INLETS SHALL HAVE "OLDCASTLE FLOGARD CATCH BASIN FILTER INSERTS" PER DETAIL 1, SHEET C8.2. ALL GRATES SHALL BE TRAFFIC RATED.
5. INSTALL DRAINAGE SLEEVE AGAINST TRASH ENCLOSURE PER DETAIL 6, SHEET C8.1. DRAIN THRU CURB FACE.
6. INSTALL UNDERGROUND ADS STORMTECH DETENTION SYSTEM. REFER TO DETAILS 1, SHEET C8.3 FOR MORE INFORMATION.
7. INSTALL PSI SINGLE STAGE SUMP PUMP PER DETAIL 2, SHEET C8.3.
8. INSTALL ADS ECOPURE BIOFILTER MODULAR WETLAND SYSTEM PER DETAIL 3, SHEET C8.3.
9. INSTALL 24" PARKWAY CULVERT TYPE A DRAIN PER CITY OF SANTA ANA STANDARD PLAN NO. 318. REFER TO SHEET C8.3 FOR MORE INFORMATION.

NORTH

GRAPHIC SCALE IN FEET
0 5 10 20
1" = 10'
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(24" X 36")

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NOTICE TO CONTRACTOR

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FILE NO.:

R-

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88

THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.

THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL

REGISTERED PROFESSIONAL ENGINEER — HANNAH M. LUEVANO — NO. 90371 — CIVIL — STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO

SENIOR CIVIL ENGINEER RCE NO.: 90371
DESIGNED: HS DRAWN: MH CHECKED: HS

DATE 6/29/2023

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL

PRINCIPAL CIVIL ENGINEER RCE NO.: 62968

DATE XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

GRADING AND DRAINAGE PLAN

SHEET NO. C6.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

## DOMESTIC WATER CONSTRUCTION NOTES

1. ALL SLEEVES FOR IRRIGATION LINES AND WIRES IN PLANTER AREAS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS AND PAVING OF SITE.

(W1) UPSIZE EXISTING 1" WATER SERVICE AND EXISTING 5/8" METER WITH 2" WATER SERVICE AND 2" METER PER SEPARATE OFFSITE PLANS.

(W2) INSTALL 1" PVC SCH. 80 IRRIGATION WATER LINE. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.

(W3) INSTALL 1" IRRIGATION BACKFLOW PREVENTER AND CONCRETE PAD PER CITY OF SANTA ANA STD. PLAN NO. 1431.

(W4) IRRIGATION POINT OF CONNECTION. REFER TO LANDSCAPE PLANS FOR CONTINUATION.

(W5) INSTALL 2" CPVC SCH. 80 DOMESTIC WATER LINE. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.

(W6) INSTALL 2" DOMESTIC BACKFLOW PREVENTER AND CONCRETE PAD PER CITY OF SANTA ANA STD. PLAN NO. 1431.

(W7) BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO PLUMBING PLANS FOR CONTINUATION.

## FIRE WATER CONSTRUCTION NOTES

(F1) HOT-TAP AND CONNECT TO EXISTING 20" WATER MAIN PER CITY OF SANTA ANA STD. PLAN NO. 1408.

(F2) INSTALL 6" DOUBLE DETECTOR CHECK ASSEMBLY PER CITY OF SANTA ANA STD. PLAN NO. 1433B.

(F3) INSTALL 6" FDC & PIV.

(F4) INSTALL 6" PVC C-900 CLASS 150 FIRE WATER LINE. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.

(F5) INSTALL LINE SIZE C-900 PVC CLASS 150 BEND WITH THRUST BLOCK PER CITY OF SANTA ANA STD. PLAN NO. 1412.

(F6) BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO PLUMBING PLANS FOR CONTINUATION.

## STORM DRAIN CONSTRUCTION NOTES

(D1) REFER TO SHEET C6.0 FOR MORE INFORMATION ON PROPOSED SITE STORM DRAIN IMPROVEMENTS.

## SANITARY SEWER CONSTRUCTION NOTES

(S1) CONNECT TO EXISTING SEWER LATERAL PER CITY OF SANTA ANA CONNECTION DETAIL 1204A. CONTRACTOR TO POTHOLE AND VERIFY LOCATION OF EXISTING LATERAL PRIOR TO TRENCHING AND SEWER INSTALLATION. IF DISCREPANCIES ARE FOUND, NOTIFY ENGINEER FOR FURTHER DIRECTION. CONTRACTOR TO SCOPE EXISTING LINE TO VERIFY CONDITION PRIOR TO TRENCHING AND SEWER INSTALLATION.

(S2) INSTALL 4" SDR-35 PVC SEWER PIPE AT MINIMUM 2% SLOPE. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.

(S3) INSTALL 6" SDR-35 PVC SEWER PIPE AT MINIMUM 2% SLOPE. TRENCHING, BACKFILL, AND PAVEMENT REPAIR IN STREET PER CITY OF SANTA ANA STD. PLAN NO. 1150 AND 1151.

(S4) INSTALL SEWER CLEANOUT PER CITY OF SANTA ANA STD. PLAN NO. 1204.

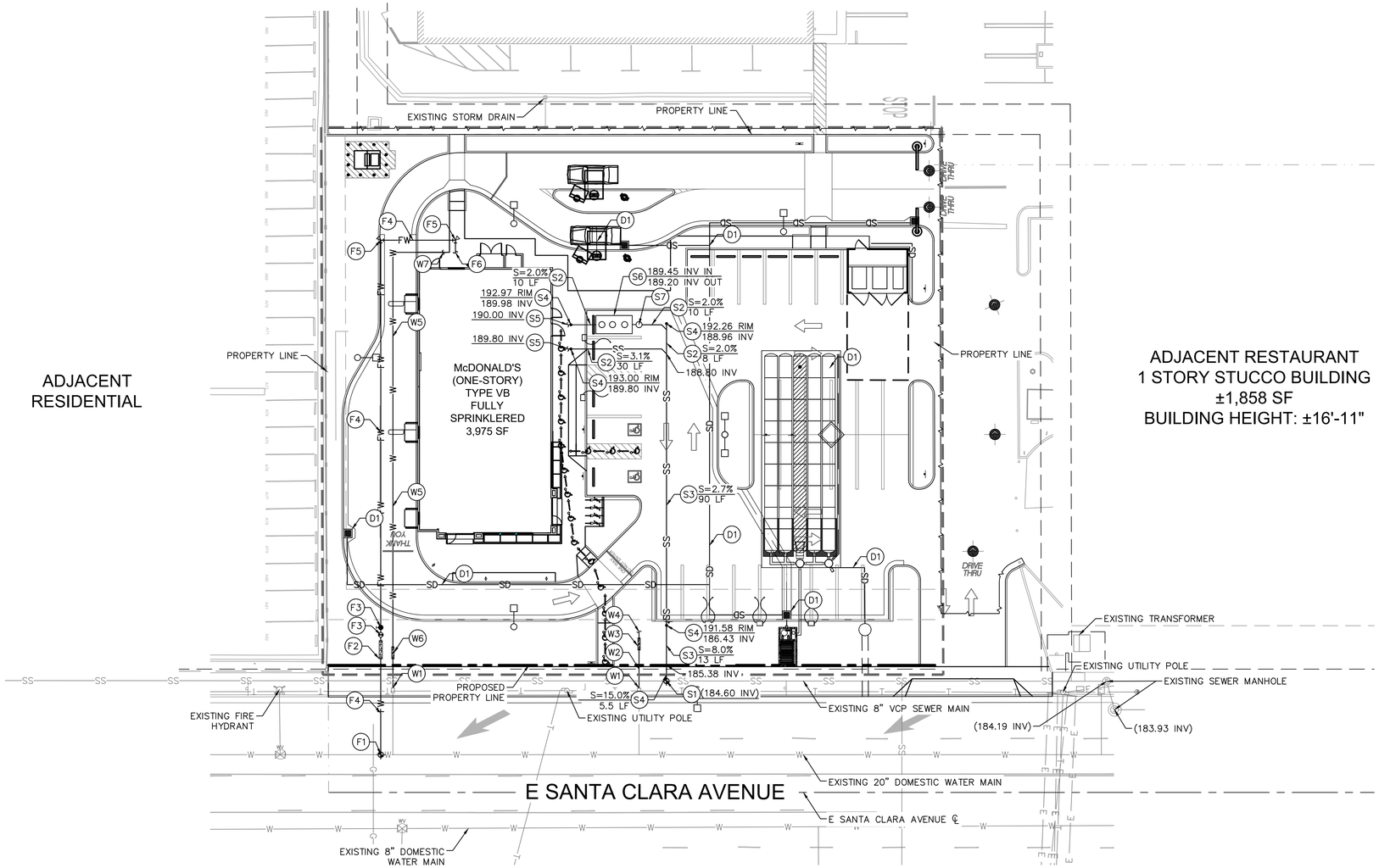
(S5) BUILDING POINT OF CONNECTION. REFER TO PLUMBING PLANS FOR CONTINUATION.

(S6) INSTALL JENSEN PRECAST 1200 GAL. GREASE INTERCEPTOR. REFER TO PLUMBING PLANS FOR MORE INFORMATION.

(S7) INSTALL JENSEN PRECAST SAMPLE BOX. REFER TO PLUMBING PLANS FOR MORE INFORMATION.

## LEGEND

| | |
|---|---|
| | CENTER LINE |
| | PROPERTY LINE |
| | EASEMENT LINE / SETBACK LINE |
| | APPROXIMATE LIMIT OF WORK LINE |
| W | EXISTING WATER LINE |
| SS | EXISTING SANITARY SEWER LINE |
| G | EXISTING GAS LINE |
| E E | EXISTING UNDERGROUND ELECTRICAL LINE |
| T | EXISTING UNDERGROUND TELECOMMUNICATIONS LINE |
| SD | EXISTING STORM DRAIN LINE |
| W | PROPOSED WATER LINE |
| FW | PROPOSED FIRE WATER LINE |
| SS | PROPOSED SANITARY SEWER LINE |
| IRR | PROPOSED IRRIGATION LINE |
| GW | PROPOSED GREASE WASTE LINE |
| SD | PROPOSED STORM DRAIN LINE |




## GENERAL NOTES

1. THE EXISTING UTILITIES SHOWN ON THE PLAN ARE BASED ON AVAILABLE RECORDS. THE CONTRACTOR MUST FIELD DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. REPORT DISCREPANCIES AND POTENTIAL CONFLICTS WITH PROPOSED UTILITIES TO ENGINEER PRIOR TO INSTALLATION OF ANY PIPING.
2. COORDINATION WITH UTILITY PURVEYORS WILL BE REQUIRED TO DETERMINE FINAL LOCATION OF ALL PROPOSED CONNECTIONS TO PUBLIC MAIN LINES.
3. ALL DRY AND WET UTILITY CROSSING SHALL HAVE MIN. 12" VERTICAL CLEARANCE.
4. UTILITY TRENCHING TO FOLLOW ORDER OF PREFERRED LOCATIONS PER STD. PLAN NO. 1140
5. FOR TRENCH BEDDING, BACKFILL, AND PAVEMENT REPAIR, SEE STD. PLAN NO. 1150 AND 1151 FOR MORE DETAILS.
6. WATER AND SEWER MAINS CROSSING STRUCTURES OR STRUCTURAL ELEMENTS SHALL BE SLEEVED/ENCASED PER STD. PLAN NO. 1429.

## GREASE INTERCEPTOR NOTES

"NO FOOD SERVICE ESTABLISHMENT IS BEING PROPOSED. IF A FOOD ESTABLISHMENT IS PROPOSED IN THE FUTURE, IT MUST COMPLY WITH THE CITY'S ORDINANCE NO. NS 26-70"

## SEWER GENERATION CALCULATIONS

EXISTING RESIDENTIAL SEWER GENERATION: 900 GAL/DAY
PROPOSED RESTAURANT SEWER GENERATION: 2,752 GAL/DAY

*BASED ON CITY OF SANTA ANA DESIGN GUIDELINES FOR WATER AND SEWER FACILITES (HTTPS://WWW.SANTA-ANA.ORG/SEWER-RATE-STUDY/)

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
1" = 20'
WHEN PRINTED AT FULL SIZE
(24" X 36")

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FILE NO.:

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| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
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THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO
SENIOR CIVIL ENGINEER RCE NO.: 90371
DESIGNED: HS DRAWN: MH CHECKED: HS
DATE 6/29/2023

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL
PRINCIPAL CIVIL ENGINEER RCE NO.: 62968
XX/YYYY

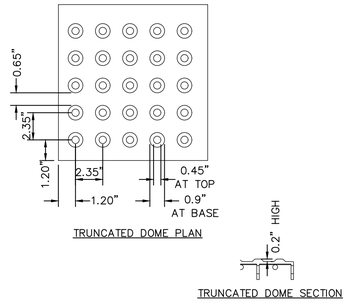
# PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

UTILITY PLAN

SHEET NO. C7.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

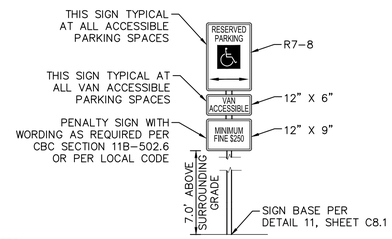



NOTES:

1. CONTRACTOR TO REFERENCE MANUFACTURERS GUIDELINES FOR INSTALLATION OF TRUNCATED DOMES.
2. COLOR TO BE YELLOW UNLESS NOTED OTHERWISE

## TRUNCATED DOMES (15)

N.T.S.

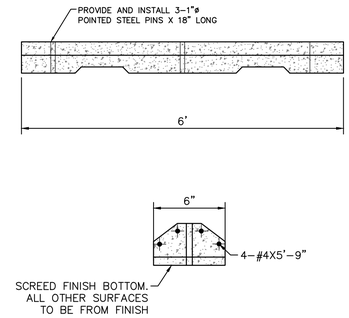



NOTES:

1. SIGNS SHALL CONFORM WITH THE MOST CURRENT CALIFORNIA MUTCD STANDARDS.
2. SIGNS SHALL BE WALL MOUNTED OR MOUNTED ON A POST PER DETAIL 11, SHEET C8.1.

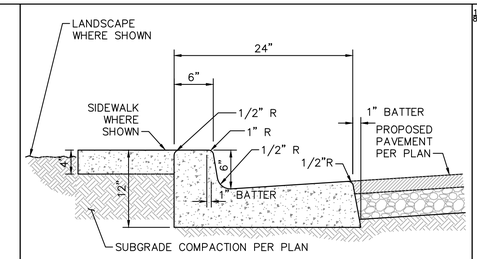
## ACCESSIBLE PARKING SIGN DETAIL (12)

N.T.S.




## 6' WIDE PRECAST WHEEL STOP (9)

N.T.S.

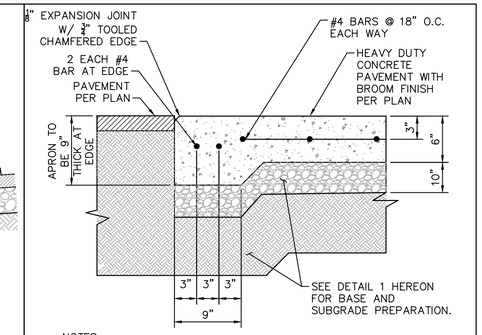



NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

## CONCRETE CURB & GUTTER (6)

N.T.S.

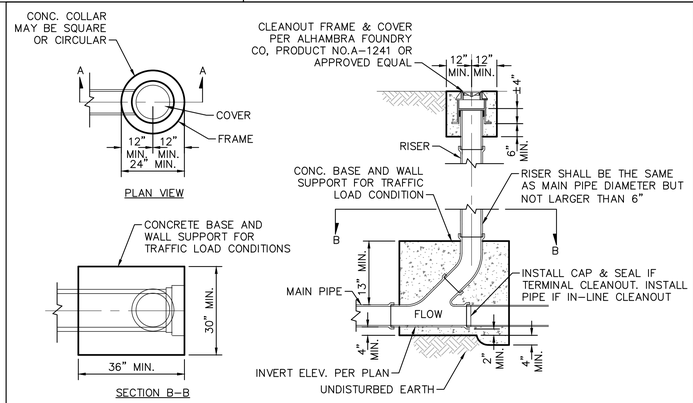



NOTES:

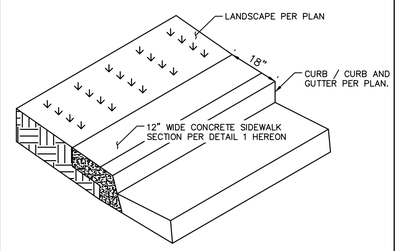
1. SEE DETAIL 1 HEREON FOR ADDITIONAL INFORMATION.
2. ISOLATION JOINTS, CONSTRUCTION JOINTS, AND CONTROL JOINTS SHALL BE PLACED ONLY AS SPECIFIED

## CONCRETE PAVEMENT AT DUMPSTER PAD (3)

N.T.S.

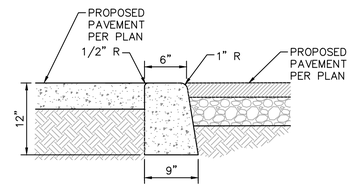



## CLEANOUT DETAIL (11)




## 18" WALK-OFF CURB DETAIL (8)

N.T.S.

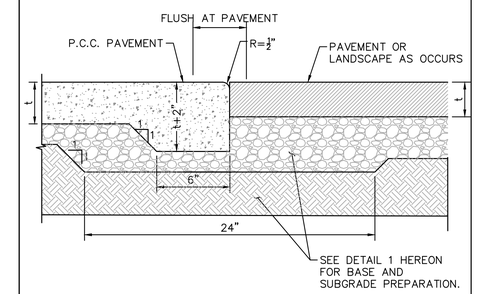



NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

## 0" CONCRETE CURB (5)

N.T.S.

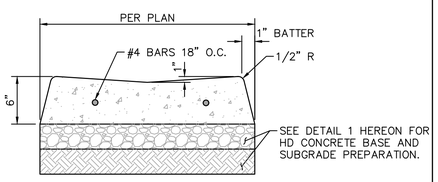



NOTES:

1. APPROVED BONDING AGENT SHALL BE APPLIED AT CONSTRUCTION JOINT.
2. SEE DETAIL 1 FOR PAVEMENT SECTION AND THICKNESS (t).
3. DETAIL APPLIES AT ALL SIDEWALK EDGE CONDITIONS AND PAVEMENT TRANSITIONS

## THICKENED EDGE (2)

N.T.S.

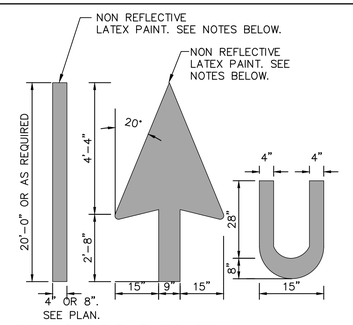



NOTE:

CONCRETE SHALL BE 3000 PSI.

## VALLEY GUTTER (13)

N.T.S.

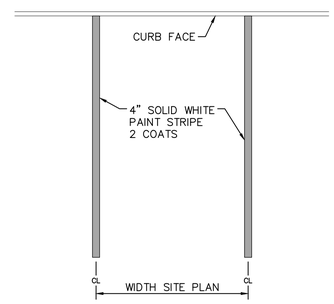



NOTE:

1. PAINT SHALL BE APPLIED AT A THICKNESS OF 22 WET MILS AND 15 DRY MILS.
2. PAVEMENT MARKINGS SHALL BE WHITE ON ASPHALT AND YELLOW ON ON CONCRETE, UNLESS STATED OTHERWISE.

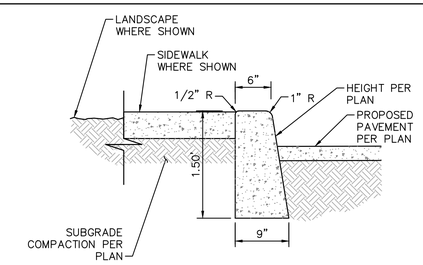
## TYPICAL PAVEMENT MARKINGS (10)

N.T.S.




## STANDARD 90° PARKING STALL STRIPING (7)

N.T.S.

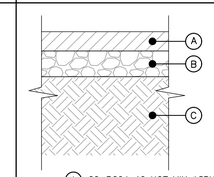



NOTES:

1. CONCRETE SHALL BE 2500 PSI.
2. ISOLATION JOINTS SHALL BE PLACED ONLY AS SPECIFIED
3. CONTRACTION JOINTS CONSISTING OF 1" DEEP SCORES SHALL BE PLACED AT 15' INTERVALS O.C.
4. WHERE A WALK IS ADJACENT TO THE CURB THE JOINTS SHALL ALIGN WITH JOINTS IN THE WALK.

## CONCRETE CURB (4)

N.T.S.




NOTES:

1. CONTRACTOR SHALL CONFIRM THESE PAVEMENT SECTIONS WITH THE GEOTECHNICAL REPORT BY UNIVERSAL ENGINEERING SCIENCES, NOVEMBER 04, 2021.
2. MATCH EXISTING PAVEMENT SECTION IF MORE STRINGENT THAN SECTION PER THIS DETAIL.
3. CONTRACTOR TO PROVIDE R-VALUE OF COMPACTED SUBGRADE TO ENGINEER PRIOR TO PAVEMENT OPERATIONS, IN ORDER TO MAKE ANY NECESSARY ADJUSTMENTS TO THE PAVEMENT SECTION.
4. ALL TREAD SURFACES SHALL BE SLIP-RESISTANT.
5. REFER TO ARCHITECTURAL PLANS FOR COLOR, TEXTURE, PATTERN AND FINISH.
6. SEE DETAIL 2 FOR THICKENED EDGE DETAIL AT ALL EDGE CONDITIONS.

(A) C2-PG64-10 HOT MIX ASPHALTIC PAVEMENT, 3,500 PSI HEAVY DUTY PORTLAND CEMENT CONCRETE OR 2,500 PSI STANDARD DUTY TYPE 1 PORTLAND CEMENT CONCRETE.

(B) AGGREGATE BASE COMPACTED TO 95% MAXIMUM DRY DENSITY BASED ON ASTM D1557-07 TEST METHOD OR CLASS 2 AGGREGATE BASE COMPACTED TO 95% OF THE MATERIAL'S ASTM D-1557 MAXIMUM DRY DENSITY.

(C) SUBGRADE SCARIFIED AND RECOMPACTED TO 95% MAXIMUM DRY DENSITY BASED ON ASTM D1557-07 TEST METHOD

| | HEAVY DUTY ASPHALT CONCRETE PAVEMENT | STANDARD DUTY CONCRETE PAVEMENT | HEAVY DUTY CONCRETE PAVEMENT |
|---|---|---|---|
| (A) | 0'-4" | 0'-4" | 0'-6" |
| (B) | 0'-8" | 0'-4" | 0'-10" |
| (C) | 1'-0" | 1'-0" | 1'-0" |

## PAVEMENT SECTIONS (1)

N.T.S.

Underground Service Alert of Southern California

CALL: TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88

THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.

THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL

REGISTERED PROFESSIONAL ENGINEER HANNAH M. L. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA

NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO

SENIOR CIVIL ENGINEER RCE NO.: 90371 DATE 6/29/2023

DESIGNED: HS DRAWN: MH CHECKED: HS

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL

PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 DATE XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

2109 E SANTA CLARA AVENUE

SANTA ANA, CA 92705

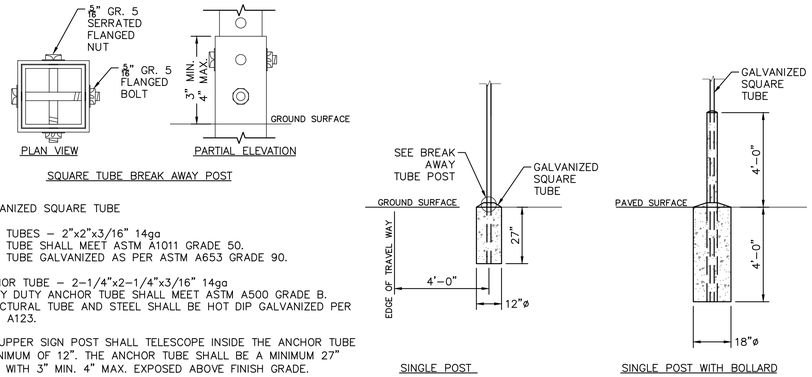
**PUBLIC WORKS AGENCY**

CITY OF SANTA ANA

CONSTRUCTION DETAILS

SHEET NO. C8.0

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




NOTES:

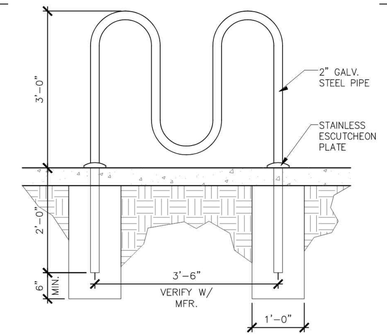
1. GALVANIZED SQUARE TUBE

   POST TUBES – 2"x2"x3/16" 14ga
   POST TUBE SHALL MEET ASTM A1011 GRADE 50.
   POST TUBE GALVANIZED AS PER ASTM A653 GRADE 90.

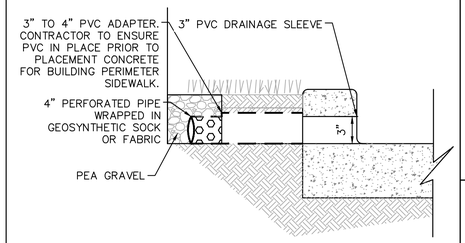
   ANCHOR TUBE – 2–1/4"x2–1/4"x3/16" 14ga
   HEAVY DUTY ANCHOR TUBE SHALL MEET ASTM A500 GRADE B. STRUCTURAL TUBE AND STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123.

   THE UPPER SIGN POST SHALL TELESCOPE INSIDE THE ANCHOR TUBE A MINIMUM OF 12". THE ANCHOR TUBE SHALL BE A MINIMUM 27" DEEP WITH 3" MIN. 4" MAX. EXPOSED ABOVE FINISH GRADE.

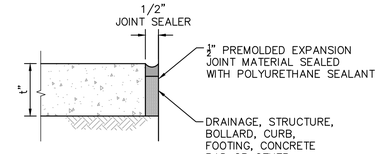
## SIGN BASE DETAIL (11)
N.T.S.



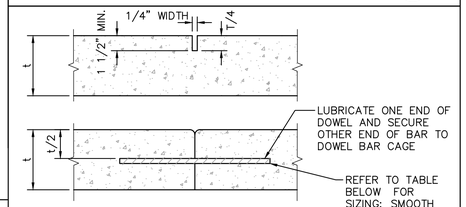

## SHORT TERM BIKE RACK (7)
N.T.S.




## DRAINAGE SLEEVE DETAIL (6)

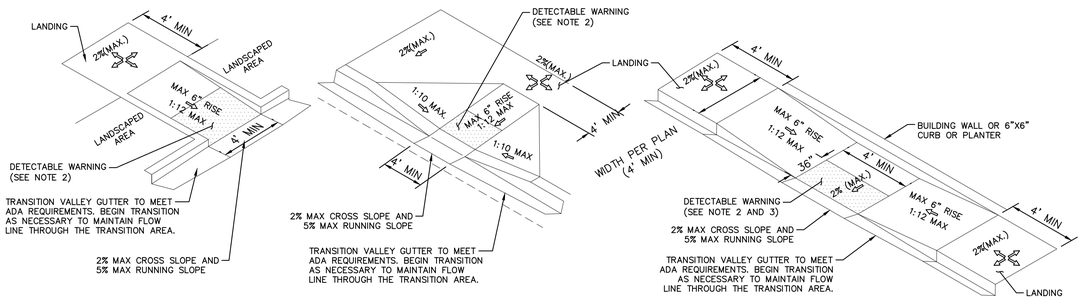



## ISOLATION JOINT @ STRUCTURE (4)
N.T.S.




| T | DOWEL DIAMETER | DOWEL EMBEDMENT | TOTAL DOWEL LENGTH |
|---|---|---|---|
| in. (mm) | in. (mm) | in. (mm) | in. (mm) |
| 4.0 (102) | 1/2 (13) | 5 (125) | 14 (360) |
| 6.0 (150) | 3/4 (20) | 5 (125) | 14 (360) |
| 6.5 (165) | 7/8 (22) | 5 (125) | 14 (360) |
| 7.0 (180) | 1 (25) | 6 (150) | 16 (400) |
| 7.5 (190) | 1–1/8 (28) | 7 (180) | 16 (400) |
| ≥ 8.0 (200) | 1–1/4 (32) | 8 (200) | 17 (430) |

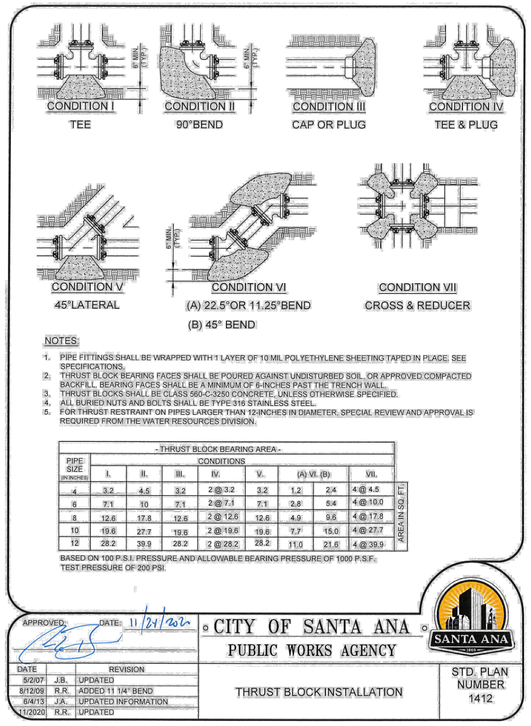
## CONSTRUCTION AND CONTROL JOINT (3)
N.T.S.




NOTES:

1. ALL ACCESSIBLE COMPONENTS CONSTRUCTED AS PART OF THESE PLANS SHALL COMPLY WITH THE LOCAL, STATE, AND FEDERAL REGULATIONS WHICHEVER ARE MORE STRINGENT.
2. CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING THE FULL WIDTH OF THE CURB RAMP AND 3' DEEP. GROOVED SURFACES ON OUTDOOR CURB RAMPS ARE NOT PERMITTED. VERIFY LOCAL REQUIREMENTS WITH THE BUILDING DEPARTMENT. REFER TO TRUNCATED DOMES DETAIL AND REQUIREMENTS IN THE CALIFORNIA BUILDING CODE.
3. PARALLEL CURB RAMPS SHALL HAVE A DETECTABLE WARNING EXTENDING 36" DEEP ALONG THE FLUSH TRANSITION BETWEEN STREET AND SIDEWALK. REFER TO TRUNCATED DOMES DETAIL.
4. PUBLIC SIDEWALK CURB RAMPS CONSTRUCTED WITHIN A PUBLIC RIGHT– OF –WAY, IN ABSENCE OF LOCAL ROADWAY GUIDELINES, SHALL MEET OR EXCEED LOCAL REGULATIONS.
5. CURB RAMP SURFACES (FLARES AND RAMP) SHALL HAVE A DIFFERENT TEXTURE FROM THE SURROUNDING PAVEMENT.
6. CURB RAMPS SHALL BE CONCRETE WITH STRENGTH OF 2500 PSI.
7. INSTALL 1/4" EXPANSION JOINT FILLER MATERIAL BETWEEN A NEW CURB RAMP AND THE EXISTING SIDEWALKS.
8. WATER PONDING WITHIN THE CURB RAMP LIMITS IS NOT ALLOWED.
9. NO GRADE BREAK IS ALLOWED ALONG THE RAMP SURFACE.
10. CROSS SLOPE OF THE CURB RAMP SURFACE SHALL BE LESS THAN 2%.
11. TRANSITION CHANGE IN ELEVATION IS NOT TO EXCEED 1/2" WITHIN AN ACCESSIBLE ROUTE.
12. DIAGONAL CURB RAMP SIDE SLOPE VARIES UNIFORMLY FROM A MAXIMUM OF UP TO 10% AT CURB TO CONFORM WITH LONGITUDINAL SIDEWALK SLOPE ADJACENT TO TOP OF THE RAMP.

## ACCESSIBLE RAMP DETAILS (10)
N.T.S.




NOTES:

1. PIPE FITTINGS SHALL BE WRAPPED WITH 1 LAYER OF 10 MIL POLYETHYLENE SHEETING TAPED IN PLACE. SEE SPECIFICATIONS.
2. THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL, OR APPROVED COMPACTED BACKFILL. BEARING FACES SHALL BE A MINIMUM OF 6-INCHES PAST THE TRENCH WALL.
3. THRUST BLOCKS SHALL BE CLASS 560-C-3250 CONCRETE, UNLESS OTHERWISE SPECIFIED.
4. ALL BURIED NUTS AND BOLTS SHALL BE TYPE 316 STAINLESS STEEL.
5. FOR THRUST RESTRAINT ON PIPES LARGER THAN 12-INCHES IN DIAMETER, SPECIAL REVIEW AND APPROVAL IS REQUIRED FROM THE WATER RESOURCES DIVISION.

- THRUST BLOCK BEARING AREA: -

| PIPE SIZE IN INCHES | CONDITIONS I. | II. | III. | IV. | V. | (A) VI. | (B) | VII. | AREA IN SQ. FT. |
|---|---|---|---|---|---|---|---|---|---|
| 4 | 3.2 | 4.5 | 3.2 | 2 @ 3.2 | 3.2 | 1.2 | 2.4 | 4 @ 4.5 | |
| 6 | 7.1 | 10 | 7.1 | 2 @ 7.1 | 7.1 | 2.8 | 5.4 | 4 @ 10.0 | |
| 8 | 12.6 | 17.8 | 12.6 | 2 @ 12.6 | 12.6 | 4.9 | 9.6 | 4 @ 17.8 | |
| 10 | 19.6 | 27.7 | 19.6 | 2 @ 19.6 | 19.6 | 7.7 | 15.0 | 4 @ 27.7 | |
| 12 | 28.2 | 39.9 | 28.2 | 2 @ 28.2 | 28.2 | 11.0 | 21.6 | 4 @ 39.9 | |

BASED ON 100 P.S.I. PRESSURE AND ALLOWABLE BEARING PRESSURE OF 1000 P.S.F.
TEST PRESSURE OF 200 PSI.

APPROVED: DATE: 11/21/2020

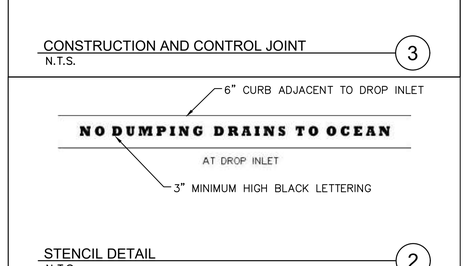
CITY OF SANTA ANA
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 5/2/07 | J.B. | UPDATED |
| 8/12/09 | R.R. | ADDED 11 1/4" BEND |
| 6/4/13 | J.A. | UPDATED INFORMATION |
| 11/2020 | R.R. | UPDATED |

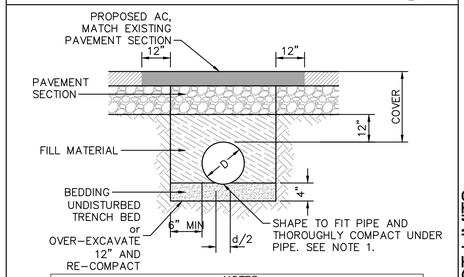
THRUST BLOCK INSTALLATION

STD. PLAN NUMBER 1412

## THRUST AND ANCHOR BLOCK DETAILS (5)
N.T.S.

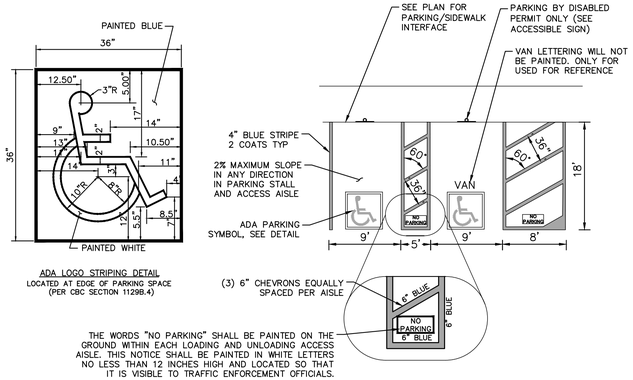



## STENCIL DETAIL (2)
N.T.S.

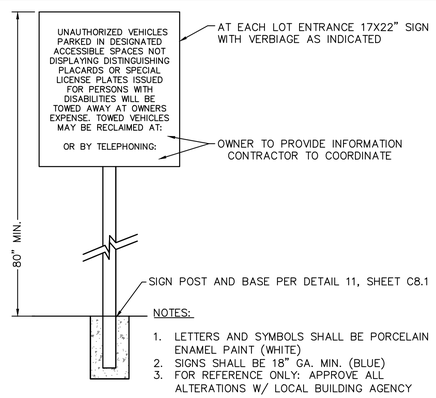



| NOTES | |
|---|---|
| BEDDING: | CLEAN COARSE SAND |
| FILL MATERIAL: | NATIVE MATERIAL – MAXIMUM SIZE NOT TO EXCEED 1 1/2" |
| COVER: | 36" MINIMUM, OR MINIMUM OF AGENCY HAVING JURISDICTION |
| NOTE 1: | EXCAVATE FOR BELLS OR HUBS SO FULL LOAD IS CARRIED BY PIPE BARRELS. |
| NOTE 2: | REFER TO SECTION _____ IN GEOTECHNICAL REPORT FOR BEDDING RECOMMENDATIONS |

## FLEXIBLE PIPE BEDDING AND TRENCH DETAIL (1)
N.T.S.




## ACCESSIBLE PARKING STALL STRIPING (9)
N.T.S.




NOTES:

1. LETTERS AND SYMBOLS SHALL BE PORCELAIN ENAMEL PAINT (WHITE)
2. SIGNS SHALL BE 18" GA. MIN. (BLUE)
3. FOR REFERENCE ONLY: APPROVE ALL ALTERATIONS W/ LOCAL BUILDING AGENCY

## PARKING SIGN (8)
N.T.S.

Underground Service Alert of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER–GROUND SERVICE ALERT" (1–800–422–4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

**REVISIONS**

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|
| | | | | | |

**REFERENCES**

BENCHMARK NO.: 3C–26–06 ELEV.: 173.744' NAVD88
THE ON–SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL: REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO No. 90371 CIVIL STATE OF CALIFORNIA — NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO — SENIOR CIVIL ENGINEER RCE NO.: 90371 — DATE 6/29/2023
DESIGNED: HS DRAWN: MH CHECKED: HS

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL — PRINCIPAL CIVIL ENGINEER RCE NO.: 62968 — DATE XX/YYYY

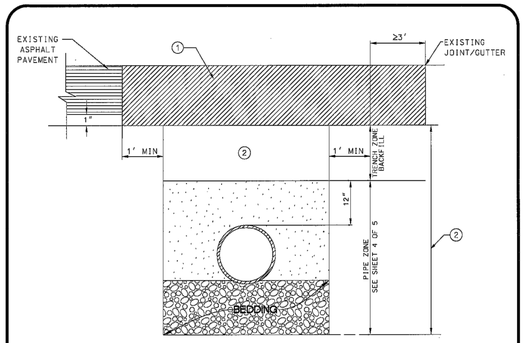
# PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

CONSTRUCTION DETAILS

SHEET NO. C8.1

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




## CONSTRUCTION NOTES

1. LIMIT OF TRENCH. IF THE LIMIT OF TRENCH IS WITHIN 3' FROM A JOINT, REPLACE THE ENTIRE SEGMENT FROM THE LIMIT OF TRENCH TO THE JOINT. SPECIFIC LIMITS OF RECONSTRUCTION TO BE DETERMINED BY THE CITY ENGINEER.

   MATCH EXISTING PAVEMENT SECTION (CONVENTIONAL OR RUBBERIZED ASPHALT) AS DIRECTED BY THE CITY ENGINEER AND AS FOLLOWS:

| STREET TYPE | AC MINIMUM PAVEMENT THICKNESS |
|---|---|
| LOCAL | 6" |
| INDUSTRIAL | 10" |
| COLLECTOR | 12" |
| ARTERIAL | AS DIRECTED BY CITY ENGINEER |

2. SEE STANDARD PLAN SHEET 4 FOR MATERIALS AND REQUIREMENTS.
3. SEE STANDARD PLAN 1151 FOR LIMITS OF PAVEMENT REPAIR FOR STREETS UNDER MORATORIUM AS DESCRIBED IN SAMC 33-54.

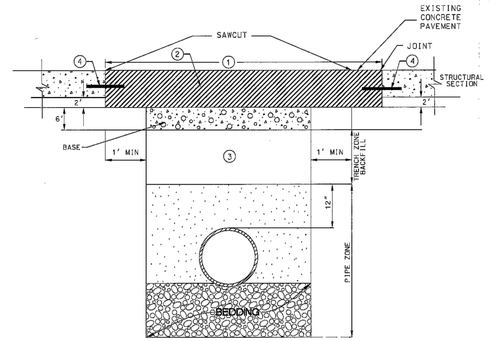
APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | REVISION |
|---|---|
| 12/14/00 | REVISED STANDARD PLAN NUMBER |

UTILITY TRENCH DETAIL
ASPHALT PAVEMENT
TRENCH PAVEMENT REQUIREMENTS

STD. PLAN NUMBER 1150
SHEET 1 OF 5




## CONSTRUCTION NOTES

1. REMOVE AND REPLACE THE EXISTING STRUCTURAL SECTION TO A MINIMUM WIDTH OF 1' BEYOND LIMIT OF TRENCH ON EACH SIDE OR TO NEAREST JOINT, WHICHEVER IS GREATER. SPECIFIC LIMITS OF PAVEMENT RECONSTRUCTION TO BE DETERMINED BY THE CITY ENGINEER.
2. REPLACEMENT CONCRETE THICKNESS SHALL BE A MINIMUM OF 2" GREATER THAN EXISTING CONCRETE SECTION AND SHALL HAVE A MINIMUM THICKNESS OF 8" PCC OVER 6" AGGREGATE BASE.
3. SEE SHEET 4 OF 5 FOR MATERIALS AND REQUIREMENTS.
4. DOWELS FOR CONTACT JOINTS SHALL BE #4 BARS, 18" LONG AND SPACED @ 24" ON CENTER.

APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 12/16/96 | SA | ADDITIONAL NOTE #5 |
| 05/01/00 | SA | REVISED NOTES AND DETAIL |
| 12/14/00 | | REVISED STANDARD PLAN NUMBER |

UTILITY TRENCH DETAIL
PCC PAVEMENT
TRENCH PAVEMENT REQUIREMENTS

STD. PLAN NUMBER 1150
SHEET 2 OF 5

## GENERAL NOTES

A. CONTRACTOR SHALL USE A VACUUM TO ABSORB SEDIMENTS DURING SAWCUTTING OPERATION AND DISPOSE OFFSITE.

B. CONTRACTOR SHALL REMOVE ANY GEOTEXTILE MATERIALS (INCLUDING CEMENT TREATED BASE) AND DISPOSE OFFSITE.

C. WHEN ALLOWED PLACEMENT OF SLURRY BACKFILL. THE CONTRACTOR SHALL NOT BASE PAVE FOR A MINIMUM OF 24 HOURS. BASE PAVING SHALL BE DONE 1" BELOW FINISHED GRADE USING TYPE III-B3-AR-4000 ASPHALT AND THE EDGES SHALL BE RAMPED TO EXISTING USING COLD MIX AT (1:12) SLOPE. FINAL PAVING SHALL BE DONE IMMEDIATELY AFTER THE BASE PAVING USING TYPE III-C3-AR-4000 ASPHALT.

D. PCC (PORTLAND CEMENT CONCRETE) USED FOR STREET PAVEMENT SHALL BE MINIMUM CLASS 560-A-3250.

E. REFER TO THE CITY'S MUNICIPAL CODE FOR THE EXCAVATION RESTRICTIONS UNDER PAVEMENT MORATORIUM.

F. TEMPORARY PAVING:

   I. ALL TRENCHES SHALL BE BACKFILLED AND HAVE TEMPORARY PAVEMENT CONSTRUCTED OR COVERED WITH STEEL RECESSED TRAFFIC PLATES AT THE END OF EACH WORKING DAY.

      IN THE EVENT STEEL PLATES CANNOT BE RECESSED, THE MINIMUM ASPHALT TAPER (COLD MIX) SHALL BE (12:1) RATIO, AS DETERMINED BY THE CITY ENGINEER.

   II. WITHIN FOUR CONSECUTIVE CALENDAR DAYS FOLLOWING INSTALLATION OF THE CONDUIT, OR AFTER COMPACTION IS APPROVED BY THE CITY ENGINEER, WHICHEVER COMES FIRST STEEL TRAFFIC PLATES SHALL BE REMOVED AND THREE INCHES OF TEMPORARY PAVEMENT SHALL BE CONSTRUCTED FLUSH WITH EXISTING PAVEMENT.

   III. CROSS STREETS ARE TO BE PAVED WITH TEMPORARY PAVEMENT ON THE SAME DAY OF EXCAVATION. TEMPORARY PAVEMENT SHALL BE MAINTAINED SO THAT A SMOOTH TRAVERSABLE SURFACE IS AVAILABLE AT ALL TIMES FOR VEHICULAR TRAFFIC AND SHALL BE FREE FROM RUTS, DEPRESSIONS, HOLES AND LOOSE GRAVELS.

   IV. TEMPORARY PAVING SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR BEFORE THE PERMANENT RESURFACING IS PLACED.

G. PERMANENT PAVING:

   I. PERMANENT PAVEMENT RESTORATION SHALL BE COMPLETED IMMEDIATELY AFTER THE TRENCH IS BACKFILLED, AND COMPACTION HAS BEEN APPROVED BY THE CITY ENGINEER.

   II. TACK COAT IS REQUIRED FOR ALL AC PAVEMENT TRENCHING OPERATIONS.

   III. DENSITY AND SMOOTHENESS SHALL BE DONE PER THE "GREENBOOK" SECTION 302-5.6.2.

H. USE OF ROCKWHEEL IS NOT PERMITTED ON PCC PAVEMENT AND ON TRENCHES GREATER THAN 10" UNLESS WITH PRIOR APPROVAL BY THE CITY ENGINEER.

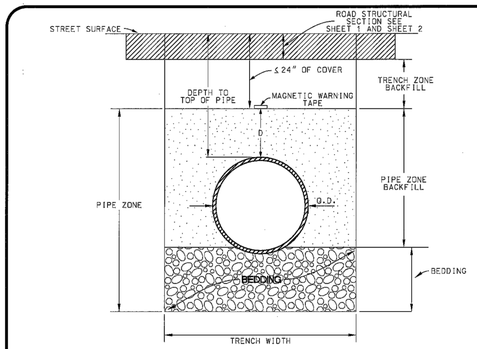
APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 12/14/00 | | REVISED STANDARD PLAN NUMBER |

UTILITY TRENCH DETAIL
ASPHALT CONCRETE PAVEMENT
TRENCH PAVEMENT REQUIREMENTS

STD. PLAN NUMBER 1150
SHEET 3 OF 5




| UTILITY | BEDDING MATERIAL / THICKNESS | D | PIPE ZONE BACKFILL | TRENCH ZONE BACKFILL | TRENCH WIDTH | DEPTH TO TOP OF PIPE |
|---|---|---|---|---|---|---|
| WATER | IMPORTED MATERIAL SAND EQUIVALENT≥30 / 6" | 12" | SAND EQUIVALENT ≥30 | SAND EQUIVALENT ≥30 | MIN. 24" O.D.+ 20" | 36" MIN. |
| SEWER | 1/2" CRUSHED ROCK / 6" | 12" | 1/2" CRUSHED ROCK | | MIN. 24" O.D.+ 12" | 36" MIN. |
| STORM DRAIN | 1/2" CRUSHED ROCK / D/4, MIN. 6" | VARIES | IMPORTED MATERIAL SAND EQUIVALENT ≥30 | | O.D.+ 16" | 30" MIN. LOCAL 36" MIN. ARTERIAL |
| OTHER | VARIES / VARIES | VARIES | SAND EQUIVALENT ≥30 OR ENGINEERED SECTION | | VARIES | 30" MIN. LOCAL 36" MIN. ARTERIAL |

NOTE: ANY DEVIATION FROM THESE REQUIREMENTS NEED PRIOR APPROVAL FROM CITY ENGINEER. COMPACTION OF 90% MUST BE MET FOR ALL MATERIALS IN THE TABLE.

APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 12/14/00 | | REVISED STANDARD PLAN NUMBER |

UTILITY TRENCH DETAIL
TRENCH MATERIALS
AND BACKFILL REQUIREMENTS

STD. PLAN NUMBER 1150
SHEET 4 OF 5

## GENERAL NOTES:

1. IF TRENCH WALLS SLOUGH SO AS TO REMOVE FIRM SUPPORT TO ADJACENT PAVEMENT, SUCH PAVEMENT SHALL BE REMOVED BACK TO WHERE UNDISTURBED IS AVAILABLE. THE REMOVAL OF PAVEMENT UNDER SUCH CONDITIONS SHALL BE FOR A MINIMUM DISTANCE OF 10 FEET ALONG THE TRENCH, AND THE WIDTH OF REMOVAL SHALL BE CONSTANT AND EQUAL TO THE GREATEST DIMENSION REQUIRED FOR REMOVAL TO FIRM SUPPORT.
2. PAVEMENT REPLACEMENT SHALL BE DONE ACCORDING TO CITY OF SANTA ANA STANDARD PLAN NUMBERS 1150 SHEET 1, 2 AND 1151.
3. COMPACT THE SAND BEDDING USING THE JETTING METHODS PER THE "GREENBOOK".
4. INSTALL DETECTABLE UTILITY MARKING TAPE - (COLOR CODED PER DIG ALERT SUGGESTED MARKING GUIDELINES.)
5. ALL TRENCHING AND CONSTRUCTION OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE'S DEPARTMENT OF INDUSTRIAL RELATIONS.
6. UTILITY PIPE SHALL BE INSTALLED IN THE CENTER OF THE TRENCH.
7. ALL TRENCH ZONE BACKFILL MUST CONFORM TO SECTION 200 OF THE "GREENBOOK" AND SHALL BE PLACED ACCORDING TO SECTION 306-1.3. IN ADDITION, WHEN NATIVE BACKFILL MATERIAL IS ALLOWED, THE CONTRACTOR SHALL TEST THE MATERIAL TO SHOW THAT THE MATERIAL IS SUITABLE FOR BACKFILL. SUITABLE NATIVE BACKFILL MATERIAL MAY ONLY BE USED WITH PRIOR APPROVAL FROM THE CITY ENGINEER. THE MATERIAL IS NOT SUITABLE IF SAND EQUIVALENT IS LESS THAN 30 OR IF THE MOISTURE CONTENT EXCEEDS THE OPTIMUM.
8. USE 1/2 SACK SAND/CEMENT SLURRY BACKFILL FOR TRENCHES LESS THAN 10" WIDE. SLURRY IS ALLOWED IN CITY OWNED UTILITIES WITH PRIOR APPROVAL BY THE CITY ENGINEER.

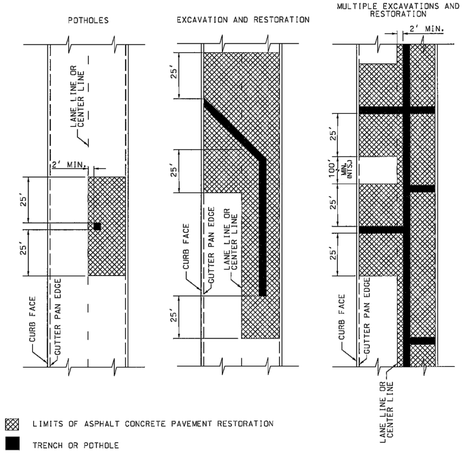
APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 12/14/00 | | REVISED STANDARD PLAN NUMBER |

UTILITY TRENCH DETAIL
TRENCH MATERIALS
AND BACKFILL REQUIREMENTS

STD. PLAN NUMBER 1150
SHEET 5 OF 5




## GENERAL NOTES:

A. ASPHALT CONCRETE RESTORATION FOR STREETS UNDER MORATORIUM AS DESCRIBED IN SAMC 33-54 IS AS SHOWN.

APPROVED: DATE: 3/22/16
CITY ENGINEER

◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|

RESTORATION FOR MORATORIUM STREETS

STD. PLAN NUMBER 1151
SHEET 1 OF 2

## GENERAL NOTES CONTINUED:

B. RESTORATION SHALL CONSIST OF GRINDING AND OVERLAYING TO A MINIMUM DEPTH OF 2" OF ASPHALT CONCRETE IN ADDITION TO RESTORATION REQUIRED BY CITY STANDARD 1150.

C. GAPS OF LESS THAN 100' BETWEEN GRIND AND OVERLAY EDGES SHALL BE INCLUDED IN THE RESTORATION.

D. POTHOLES USING A 10" DIAMETER OR LESS ROUND VACUUM CORE MAY NOT REQUIRE A GRIND AND OVERLAY, AT THE DISCRETION OF THE CITY ENGINEER'S FIELD REPRESENTATIVE.

E. IF THE EDGE OF TRENCH IS WITHIN 2' OF A LANE LINE, THE GRIND AND OVERLAY SHALL EXTEND TO COVER THE ENTIRE NEIGHBORING LANE.

F. RESTORATION FOR ANGLED TRENCHES ARE TO BE SQUARED OFF AS SHOWN ON PAGE 1.

G. IN LIEU OF GRIND AND OVERLAY, ASPHALT BEYOND THE LIMITS OF THE RESTORATION REQUIRED BY CITY STANDARD 1150 MAY BE REPLACED AT FULL DEPTH.

H. IN PORTLAND CEMENT CONCRETE PAVED STREETS, THE RESTORATION LIMITS ARE DETERMINED USING CITY STANDARD 1150.

APPROVED: DATE: 3/22/16
CITY ENGINEER

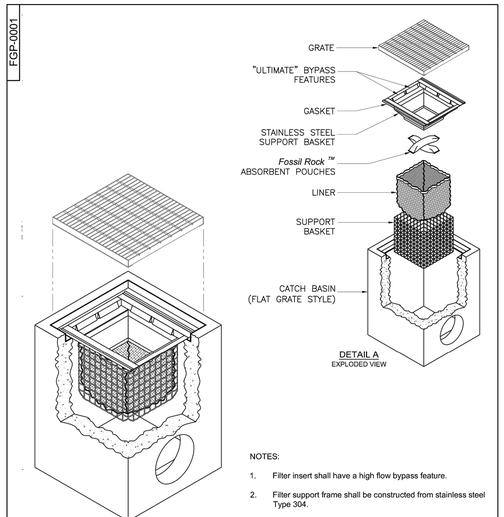
◦ CITY OF SANTA ANA ◦
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|

RESTORATION FOR MORATORIUM STREETS

STD. PLAN NUMBER 1151
SHEET 2 OF 2

FGP-0001




FloGard® FILTER
-INSTALLED INTO CATCH BASIN-

NOTES:

1. Filter insert shall have a high flow bypass feature.
2. Filter support frame shall be constructed from stainless steel Type 304.
3. Filter medium shall be *Fossil Rock* ™, installed and maintained in accordance with manufacturer specifications.
4. Storage capacity reflects 80% of maximum solids collection prior to impeding filtering bypass.

U.S. PATENT # 6,00,023 & 6,877,029

FloGard® Catch Basin Insert Filter
Grated Inlet Style

Oldcastle® Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.8819 | oldcastlestormwater.com

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| DRAWING NO. | REV. | ECO | DATE | | SHEET |
|---|---|---|---|---|---|
| FGP-0001 | G | ECO-0142 JPR 7/13/16 | JPR 11/3/06 | | 1 OF 2 |

24" X 24" DRAIN INLET
N.T.S.

1

Underground Service Alert of Southern California
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR

*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDER-GROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

## REVISIONS

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|

## REFERENCES

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.

CONSTRUCTION COMPLETED:

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH M. LUEVANO NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF:
HANNAH LUEVANO
SENIOR CIVIL ENGINEER RCE NO.: 90371
DESIGNED: HS DRAWN: MH CHECKED: HS
DATE: 6/29/2023

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION:
JASON GABRIEL
PRINCIPAL CIVIL ENGINEER RCE NO.: 62968
DATE: XX/YYYY

# PROPOSED DRIVE-THRU RESTAURANT

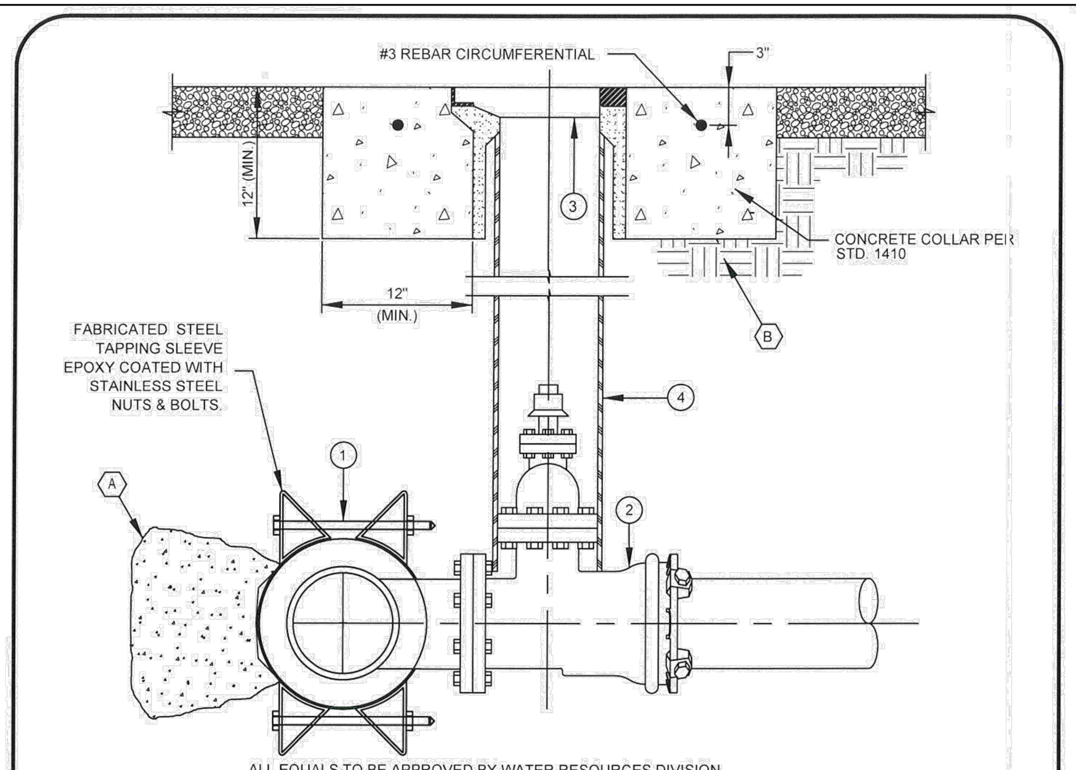
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

**PUBLIC WORKS AGENCY**
CITY OF SANTA ANA

CONSTRUCTION DETAILS

SHEET NO. C8.2

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS




ALL EQUALS TO BE APPROVED BY WATER RESOURCES DIVISION.

| CONSTRUCTION ITEMS / MATERIALS LIST | | | |
|---|---|---|---|
| NO. | SIZE AND DESCRIPTION | MANUFACTURER | MFR. CAT. NO. |
| 1 | TAPPING SLEEVE (EPOXY COATED & STAINLESS STEEL BOLTS) | FORD SMITH-BLAIR | FTSC 622 |
| 2 | GATE VALVE, TAPPING X MJ OR FLG X FLG (RESILIENT WEDGE) CLASS 200 | CLOW OR EQUAL | ——— |
| 3 | VALVE BOX FRAME & COVER, PER STD. PLAN 1410 | MARK SERIES | 10" MARK V TRI LID WATER POWDER COATED - BLUE |
| 4 | P.V.C. PIPE, 8", SCHEDULE 40 | ——— | ——— |

NOTES:
1. ALL BURIED NUTS AND BOLTS SHALL BE TYPE 316 STAINLESS STEEL.
2. ALL BURIED IRON SHALL BE WRAPPED WITH 1 LAYER OF 10 MIL POLYETHYLENE SHEETING TAPED IN PLACE.
3. ALL TAPPING SLEEVES MUST BE 24" (MIN.) FROM THE NEAREST JOINT OR SERVICE.
4. APPLICABLE ONLY FOR C900 PVC, CAST IRON, AND DUCTILE IRON WATER MAINS. NO TAPPING OF AC MAINS ALLOWED.

(A) THRUST BLOCK DETAILS (SEE CITY STD. PLAN 1412, CONDITION 1).
(B) PAVEMENT BASE MATERIAL OR COMPACTED SOIL.

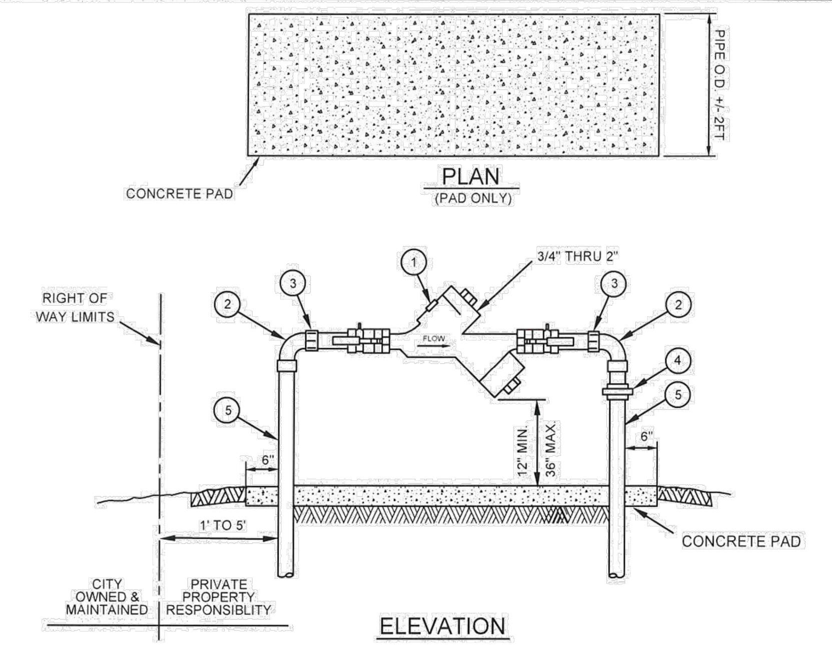
APPROVED: DATE: 11/24/2020

CITY OF SANTA ANA
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 8/12/09 | R.R. | REVISE MANUFACTURER LIST |
| 6/4/13 | J.A. | UPDATED |
| 8/31/15 | J.B. | UPDATED TAPPING SLEEVE SPECS. |
| 11/2020 | R.R. | UPDATED |

TAPPING SLEEVE AND GATE VALVE

STD. PLAN NUMBER 1408




| LEGEND OF MATERIAL: | |
|---|---|
| NO. | SIZE & DESCRIPTION |
| 1 | APPROVED BACKFLOW PREVENTION ASSEMBLY |
| 2 | SOLDER 90° ELL |
| 3 | MIP SOLDER ADAPTER |
| 4 | SOLDER UNION |
| 5 | TYPE "K" SOFT COPPER OR BRASS |

GENERAL NOTES:
1. TO ENSURE APPROPRIATE FLOW PLEASE CHECK WITH THE CITY PLUMBING INSPECTOR FOR SIZING.
2. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER AFTER INSTALLATION, RELOCATION OR REPAIR.
3. BACKFLOW MUST BE EASILY ACCESSIBLE TO FACILITATE TESTING AND SERVICING.
4. THE USC LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES HAS BEEN ADOPTED BY THE CITY WATER DEPARTMENT AS THE ONLY ASSEMBLIES APPROVED FOR USE ON THE WATER LINES UNDER OUR JURISDICTION.
5. PRIVATE WATER APPURTENANCES SUCH AS BACKFLOW PREVENTERS, FIRE HYDRANTS AND STANDPIPES, AND VALVES SHALL BE PAINTED AS FOLLOWS:
- DOMESTIC WATER (BLUE)
- POTABLE IRRIGATION (GREEN)
- RECYCLED IRRIGATION (PURPLE)
- FIRE PROTECTIONS (OSHA SAFETY RED)

HEALTH HAZARD (POLLUTANT) BACKFLOW PREVENTION DEVICE

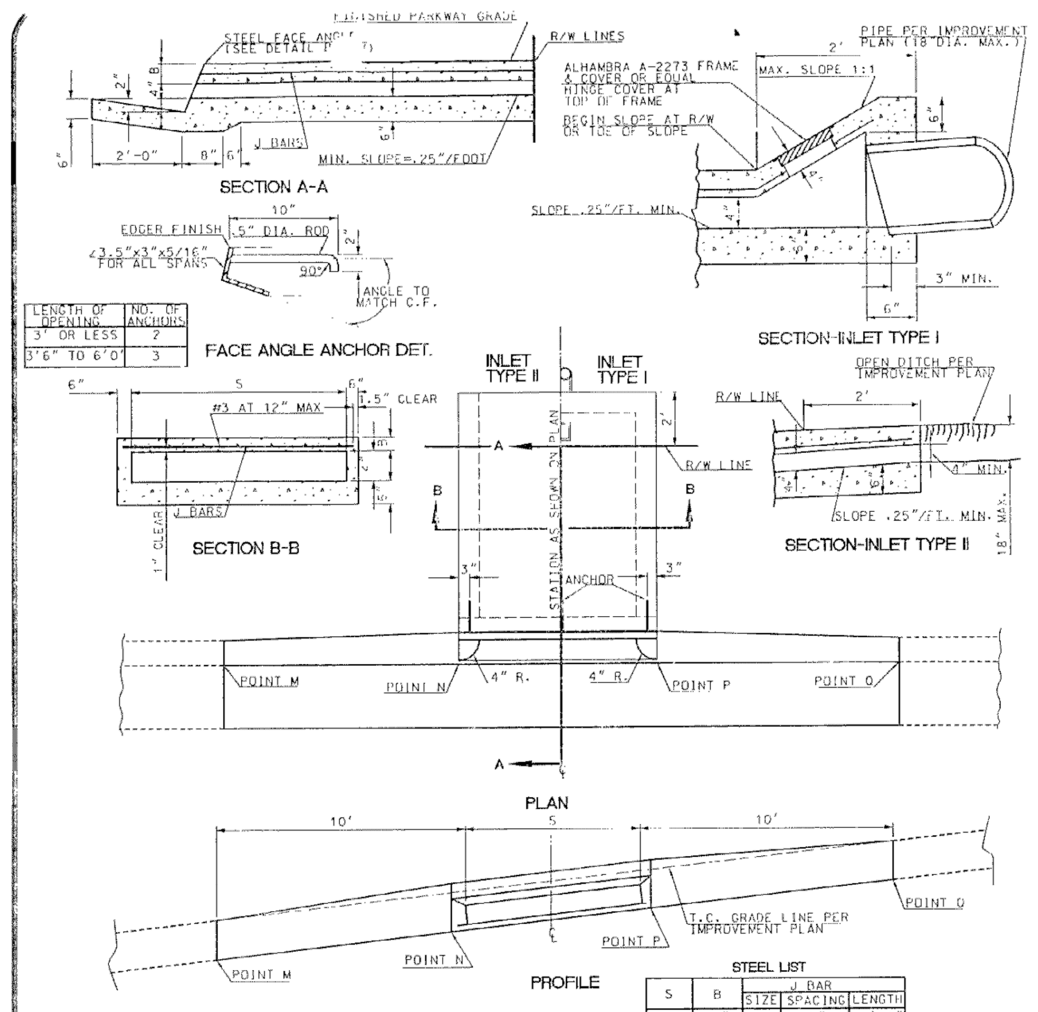
APPROVED: DATE: 11/20/2020

CITY OF SANTA ANA
PUBLIC WORKS AGENCY

| DATE | | REVISION |
|---|---|---|
| 3/1/16 | R.R. | NEW |

DOUBLE CHECK VALVE ASSEMBLY (2" OR SMALLER)

STD. PLAN NUMBER 1431




| LENGTH OF OPENING | NO. OF ANCHORS |
|---|---|
| 3' OR LESS | 2 |
| 3'6" TO 6'0" | 3 |

STEEL LIST

| S | B | J BAR SIZE | J BAR SPACING | J BAR LENGTH |
|---|---|---|---|---|
| 1'-0" | 3" | #3 | 7" | 1'-9" |
| 1'-6" | " | " | " | 2'-3" |
| 2'-0" | " | " | " | 2'-9" |
| 2'-6" | " | " | " | 3'-3" |
| 3'-0" | " | " | " | 3'-9" |
| 3'-6" | " | " | 6" | 4'-3" |
| 4'-0" | " | " | 5" | 4'-9" |
| 4'-6" | 4" | " | 6.5" | 5'-3" |
| 5'-0" | " | " | 5" | 5'-9" |
| 5'-6" | " | " | 4" | 6'-3" |
| 6'-0" | " | " | 3.5" | 6'-9" |

NOTES:
1. NORMAL CURB FACE AT POINT M & O, B + 5" AT POINTS N & P.
2. FLOOR OF CULVERT TO BE TROWELED SMOOTH.
3. ALL EXPOSED METAL SHALL BE GALVANIZED AFTER FABRICATION. ALL EXPOSED CAST IRON FIXTURES SHALL HAVE A BITUMINOUS COATING.
4. CONCRETE SHALL BE 560-C-3250.
5. TOP OF INLET STRUCTURES (TYPE I & II) SHALL BE FLUSH WITH ADJACENT SURFACE WHERE POSSIBLE.
6. SEE STANDARD #319 FOR DETAIL OF GRATED INLET.
7. FOR OPEN DITCH APPROACH (TYPE II), EXTENSION BEYOND R/W LINE IS NOT REQUIRED WHEN BACK OF WALK IS 2' OR MORE FROM R/W LINE.
8. INLET TYPE TO BE SPECIFIED ON IMPROVEMENT PLAN.

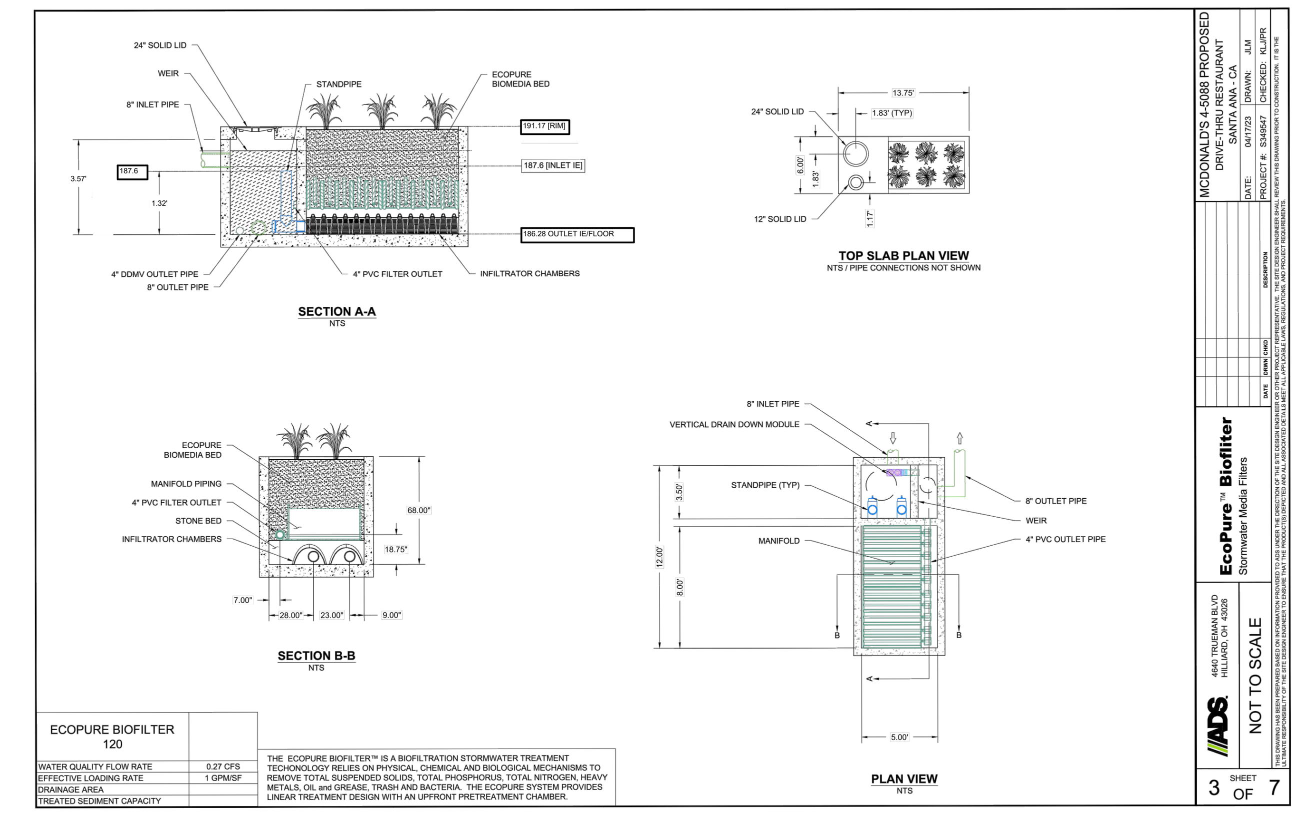
APPROVED: DATE: 1-3-00
CITY ENGINEER

CITY OF SANTA ANA
PUBLIC WORKS AGENCY

| DATE | REVISION |
|---|---|

PARKWAY CULVERT TYPE 'A'

STD. PLAN NO. 318




ADS ECOPURE BIOFILTER MODULAR WETLAND SYSTEM
N.T.S.
(3)

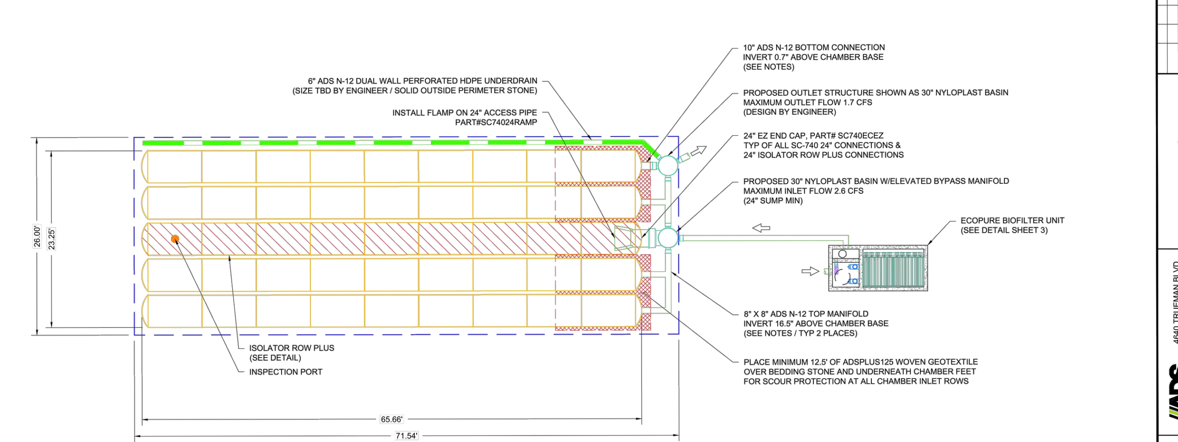
PROPOSED LAYOUT

| | |
|---|---|
| 45 | STORMTECH SC-740 CHAMBERS |
| 10 | STORMTECH SC-740 END CAPS |
| 6 | STONE ABOVE (in) |
| 6 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **3,845** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 1860 | SYSTEM AREA (ft²) |
| 195 | SYSTEM PERIMETER (ft) |

PROPOSED ELEVATIONS

| | |
|---|---|
| 196.57 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 190.57 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 190.07 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 189.07 | TOP OF STONE |
| 188.57 | TOP OF SC-740 CHAMBER |
| 187.45 | 8" TOP MANIFOLD INVERT |
| 186.13 | 10" BOTTOM MANIFOLD INVERT |
| 186.08 | 24" ISOLATOR ROW PLUS CONNECTION INVERT |
| 186.07 | BOTTOM OF SC-740 CHAMBER |
| 185.57 | UNDERDRAIN INVERT |
| 185.57 | BOTTOM OF STONE |

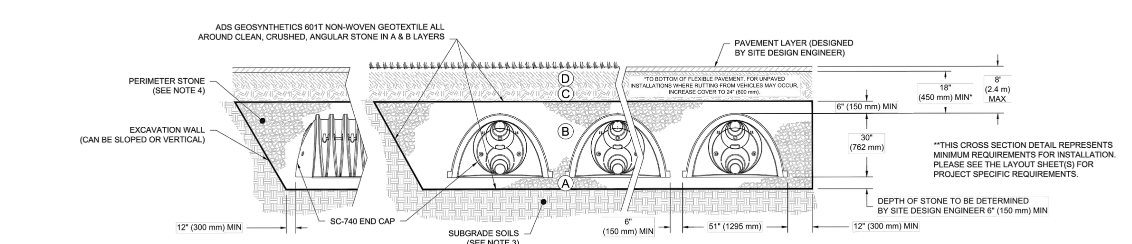
NOTES
- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.




ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

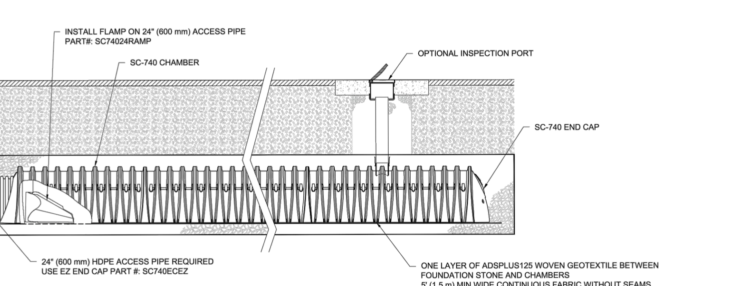
| | MATERIAL LOCATION | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.




NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT SANTA ANA - CA — StormTech® Chamber System — 5 SHEET OF 7




SC-740 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

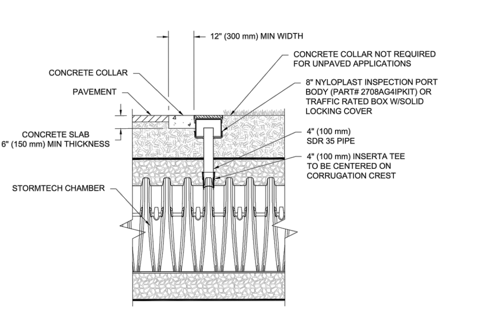
STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
A. INSPECTION PORTS (IF PRESENT)
A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
B. ALL ISOLATOR PLUS ROWS
B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

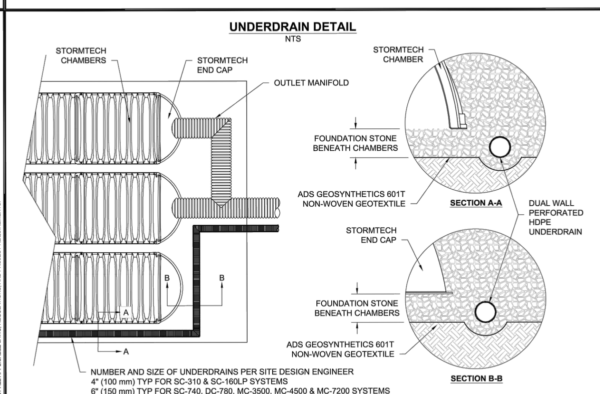



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

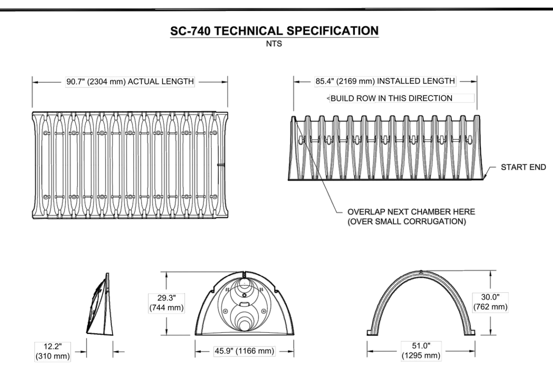
4" PVC INSPECTION PORT DETAIL
(SC SERIES CHAMBER)
NTS

MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT SANTA ANA - CA — StormTech® Chamber System — 6 SHEET OF 7

UNDERDRAIN DETAIL
NTS




SC-740 TECHNICAL SPECIFICATION
NTS




NOMINAL CHAMBER SPECIFICATIONS
SIZE (W X H X INSTALLED LENGTH) 51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE 45.9 CUBIC FEET (1.30 m³)
MINIMUM INSTALLED STORAGE* 74.9 CUBIC FEET (2.12 m³)
WEIGHT 75.0 lbs. (33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

| PART # | STUB | A | B | C |
|---|---|---|---|---|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm) | 10.9" (277 mm) | 18.5" (470 mm) | --- |
| SC740EPE06B / SC740EPE06BPC | | | --- | 0.5" (13 mm) |
| SC740EPE08T /SC740EPE08TPC | 8" (200 mm) | 12.2" (310 mm) | 16.5" (419 mm) | --- |
| SC740EPE08B / SC740EPE08BPC | | | --- | 0.6" (15 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | 14.5" (368 mm) | --- |
| SC740EPE10B / SC740EPE10BPC | | | --- | 0.7" (18 mm) |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | 12.5" (318 mm) | --- |
| SC740EPE12B / SC740EPE12BPC | | | --- | 1.2" (30 mm) |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm) | --- |
| SC740EPE15B / SC740EPE15BPC | | | --- | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm) | --- |
| SC740EPE18B / SC740EPE18BPC | | | --- | 1.6" (41 mm) |
| SC740ECEZ* | 24" (600 mm) | 18.5" (470 mm) | --- | 0.1" (3 mm) |

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT SANTA ANA - CA — StormTech® Chamber System — 7 SHEET OF 7

UNDERGROUND ADS STORMTECH DETENTION SYSTEM
N.T.S.
(1)

PACKAGED STORM WATER LIFT STATION
McDONALD'S - 2109 E. SANTA CLARA AVE - SANTA ANA, CA

**SCOPE OF SUPPLY:**
Furnish and install complete pre-packaged duplex sewage Lift Station model **#PSI-KIM041923** as manufactured by Pacific Southwest Industries (national phone # 800-358-9095)

This pre-packaged Lift Station shall incorporate a quick removal system manufactured by the pump manufacturer. The pump(s) shall be guided to the discharge base elbow by a single or double guide rail and shall be stainless steel and shall extend from the discharge base elbow to the upper guide bracket mounted on 1-5/8" x 1-5/8" channel strut just below the basin cover. Stainless steel lifting chain or cable shall be supplied and properly installed to remove the pump from the wet well. The internal discharge piping shall be completely pre-plumbed with pressure rated schedule 40 or 80 PVC pipe as indicated and extend 12" beyond the wet well and valve vault side wall for contractor connection to the force main piping. The pump(s) discharge piping shall have a check and ball valve installed on each pump discharge. The lift station shall also include a control panel and floats.

**PUMP(S):**
The pump furnished for this application shall be model 3LEV03 as manufactured by Liberty Pumps and shall be capable of handling residential and commercial sewage up to 3" solids.

**CONSTRUCTION:**
Each centrifugal pump shall be equal to the Certified 3LEV03-Series pumps as manufactured by Liberty Pumps, Bergen NY. The casting enclosing the motor shall be constructed of class 30 cast iron. The complete motor enclosure shall be designed and manufactured to meet stringent hazardous location guidelines with performance verified via flame propagation and hydrostatic testing. The motor housing shall be oil-filled to dissipate heat. Air-filled motors shall not be considered equal since they do not properly dissipate heat from the motor. Mating parts shall be machined and sealed with a Buna-N O-ring. All fasteners exposed to the process fluid shall be stainless steel. The motor shall be protected on the top side with a sealed cast iron cord entry plate, which is potted to prevent water from entering through the cord. The motor shall be protected on the lower side with a dual mechanical seal arrangement and an oil-filled intermediate chamber. The upper seal shall be a unitized mechanical seal with silicon carbide faces. The lower seal shall be a two-piece mechanical seal with silicon carbide faces. The upper and lower bearings shall be sized to properly withstand radial and thrust loads produced throughout the full operating range of the pump.

**POWER CABLE:**
The submersible pump shall be supplied with 25, 35, or 50 feet of a multi-conductor cord of type SOOW. These type SOOW power cords carry a voltage rating of 600 V, a temperature rating of 90°C, have oil-resistant insulation, are water- and weather-resistant, UL listed, and CSA approved. The power cord shall be sized for the rated full load amps of the pump for continuous duty in accordance with the NEC®. A separate type SOOW control cord of equal length shall also exit the pump. The cord entries to the pump shall be protected via two sealing methods. The cords first pass through a Buna-N compression grommet that seals against the outer jacket of the cable. The Buna-N grommet also doubles as a strain relief. Each individual conductor then continues into a chamber that is filled with epoxy potting compound. The epoxy potting compound seals each individual conductor and protects against any intrusion of liquid into the motor cavity in the event of wicking.

**MOTOR:**
The motor shall be oil-filled, Class F insulated, and rated for continuous duty. Since air-filled motors are not capable of dissipating heat efficiently, they shall not be considered equal. Pumps requiring an auxiliary cooling means shall not be considered equal. The copper stator windings shall be insulated with moisture-resistant Class F insulation materials, rated for 155°C. The maximum continuous temperature of pumped liquids shall be 40°C. The winding operating temperature at rated horsepower shall be a maximum of 140°C @ 40°C ambient. Motor shall have thermal protector on 1-phase model 3LEV032 to cut power to motor in thermal overheat conditions.

**BEARINGS AND SHAFT:**
The shaft shall be supported by two ball bearings. The top bearing shall be a radial contact ball bearing and the lower bearing shall be an angular contact ball bearing designed to handle the radial and axial forces incurred by pumping/grinding. The lower bearing shall be positively retained by a threaded bearing retaining nut, which eliminates any axial movement or rotation of the outer bearing race. Both bearings shall be permanently lubricated by the oil that fills the motor housing. Pump designs requiring scheduled bearing maintenance shall not be considered equal. Pumps with single row lower bearings or sleeve bearings shall not be considered equal. The bearing system shall be sized to provide a minimum of 100,000 hours B10 bearing life throughout the operating range of the pump. Pumps that only provide a 50,000 hour B10 bearing life shall not be considered equal. The motor shaft shall be made of 303 stainless steel. The shaft shall be designed to withstand the maximum torque and radial loads present during start-up and normal operation. Shafts of carbon steel or chrome-plated shafts shall not be considered equal.

**SEALS:**
The pump shall have one shaft seal. Seal shall include stainless steel housings and Buna elastomers.

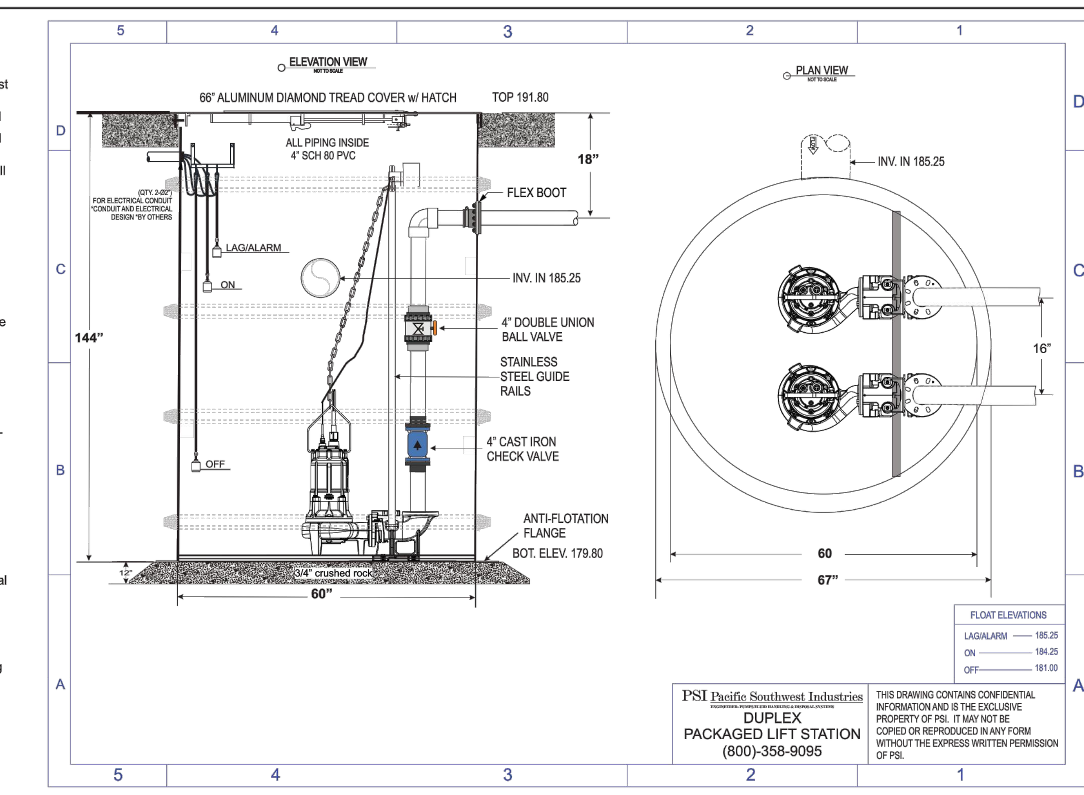
**IMPELLER:**
The impeller shall be ASTM class 30 cast iron, with optional silicon bronze material available. A vortex impeller design provides an efficient path through the impeller for solids to pass without getting caught or snagged. Impeller shrouds are designed to operate in close proximity to the pump volute casing to prevent solids from entering the seal area or recirculating back to the intake. The impeller shall be keyed and bolted onto the motor shaft.

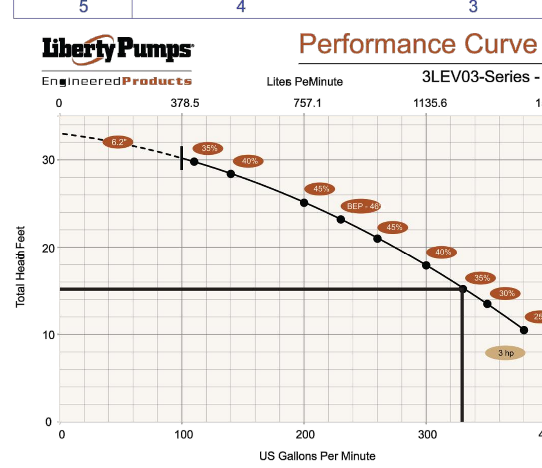
**QUICK REMOVAL SYSTEM:**
The pumping unit(s) shall be equipped with quick removal system (QRS). The construction shall be such that the pump(s) will automatically connect to the discharge piping when lowered into place on the discharge connector. There shall be no need for personnel to enter the wet well to accomplish installation or removal of the pump(s). The pumping unit(s) shall be fitted with stainless steel lifting chain(s) of sufficient length and strength to permit the raising and lowering of the unit(s). The chain(s) shall be fastened at the top of the structure near the access opening. A sliding guide bracket shall be an integral part of the pumping unit and the pump casing shall have a machined connection with a bracket to connect with the discharge connection. Sealing of the pumping unit to the discharge connection shall be accomplished by a single linear downward motion of the pump with the entire weight of the pumping unit guided by a pawl, thereby wedging the pumping unit tightly against the discharge connector. No portion of the pump shall bear directly on the floor of the sump nor shall a rotary motion of the pump be required for sealing. All fasteners coming into contact with the pumpage shall be stainless steel. Two corrosion resistant guide pipes shall be furnished and installed for each pump to permit raising and lowering of the pump. Guide pipes shall be 1.25" inch (33 mm) in diameter and shall be of adequate length to extend from the lower guide holder to the upper guide bar bracket(s) mounted on the access frame.

**FIBERGLASS WET WELL:**
The fiberglass wet well with an anti-flotation flange shall have the proper diameter and depth below the lowest inlet to promote proper cycling while maintaining the rim at grade. The fiberglass wet well shall be manufactured using a process that is filament wound and or chopped spray. The wet well shall be constructed with a anti flotation flange. Lifting lugs shall be required for those wet wells 48 inches in diameter and larger for setting of the wet well. The laminate shall have a Barco hardness of at least 90% of the resin manufactures minimum specified hardness for cured resin on both the interior and exterior surfaces. The minimum wall thickness of the wet well shall not be less than 1/4". Stainless steel studs will be encapsulated in the bottom of the wet well to allow the mounting of the quick removal system. The top rim flange will be a minimum of 2" wide to allow for the installation of the pedestrian rated aluminum cover to the rim flange or shall be rimless if the cover is specified for H20 off street locations. The wet well shall be provided with "unseal" fittings that can be installed in the field to insure proper elevation of the inlet, vent, and electrical on the side of the wet well. The wet well will house 2 - swing check valves, and 2 – shut off valves.

**COVER(s)**
The wet well cover shall always be gasketed and bolted to the rim flange of the fiber glass tank using 7/16" stainless steel hex head bolts unless the cover is to be in a H20 off street location. The type of material to be used for the cover shall be as indicated on this plan sheet.

**DUPLEX ALTERNATING CONTROL PANEL:**
The duplex control panel, as a minimum, shall include the appropriate enclosure type for the environment it is to be installed in and should include the following: Motor starters, motor circuit protectors or variable frequency drives (VFD), pump run indicator light(s), operation selector switch(es), high water alarm and light, silence switch, dry contact for alarm, numbered terminals for all incoming power, pump motor(s) and level controls. The control panel shall be UL listed 508 or 913.




| HAZEN-WILLIAMS EQUATION/HEAD LOSS IN WATER PIPE | |
|---|---|
| $(f) = 0.2083\ (100 / c)^{1.852}\ q^{1.852} / dh^{4.8655}$ | |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 4" SCH 80 = 3.83 |
| 4" FRICTION LOSS PER 100 FT = | 7.50 |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 6" SCH 80 = 5.76 |
| 6" FRICTION LOSS PER 100 FT = | 1.03 |
| Velocity (ft/s) | 4.07 |

| STORM LIFT STATION PROFILE & CALCULATIONS | | | | | |
|---|---|---|---|---|---|
| 4" SCH 40 = 4.03 SCH 80 = 3.83 | | | | | |
| 4" PVC PIPE | (QTY) | 12 | x | 1 FT | 12 FT |
| 4" PVC 90 ELBOW | (QTY) | 1 | x | 11 FT | 11 FT |
| 4" PVC 45 BEND | (QTY) | 0 | x | 5 FT | 0 FT |
| 4" PVC TEE | (QTY) | 0 | x | 21 FT | 0 FT |
| 4" BALL VALVE | (QTY) | 1 | x | 2.7 FT | 2.7 FT |
| 4" CHECK VALVE | (QTY) | 1 | x | 22 FT | 22 FT |
| TOTAL EQUIVALENT LENGTH | | | | | 47.7 FT |
| FRICTION LOSS PER 100 FT 4" PVC | 330 GPM | 7.50 FT | | PER 100 FT | |
| FRICTION LOSS 4" | 47.7 | / 100 | x | 7.50 FT | 3.58 FT |
| 6" SCH 40 = 6.06 SCH 80 = 5.76 | | | | | |
| 6" PVC PIPE | (QTY) | 20 | x | 1 FT | 20 FT |
| 6" PVC 90 ELBOW | (QTY) | 1 | x | 16 FT | 16 FT |
| 6" PVC 45 BEND | (QTY) | 0 | x | 7.7 FT | 0 FT |
| 6" PVC TEE | (QTY) | 0 | x | 33 FT | 0 FT |
| TOTAL EQUIVALENT LENGTH | | | | | 36 FT |
| FRICTION LOSS PER 100 FT 6" PVC | 330 GPM | 1.03 FT | | PER 100 FT | |
| FRICTION LOSS 6" | 36 | / 100 | x | 1.03 FT | 0.37 FT |
| TOTAL DYNAMIC HEAD | | | | | |
| 4" FRICTION LOSS | | | | | 3.58 FT |
| 6" FRICTION LOSS | | | | | 0.37 FT |
| COMBINED 4" AND 6" FRICTION LOSS | | | | | 3.95 FT |
| STATIC HEAD | | | | + | 11.05 FT |
| PERFORMANCE | 330 GPM | @ 15.00 | | FT TDH THROUGH 6" PVC LINE | |

STORM WATER PUMP SYSTEM DETAILS

NOTE: VERIFY ALL ELEVATIONS PRIOR TO FABRICATION. OTHERS TO VERIFY ALL INLET/OUTLET ORIENTATIONS PRIOR TO FABRICATION AND INSTALLATION. *ALL PIPE OPENINGS AND SEALING SHALL BE COMPLETED IN FIELD BY OTHERS.

PSI Pacific Southwest Industries
ENGINEERED- PUMPS/FLUID HANDLING & DISPOSAL SYSTEMS
18541 COLLIER AVE., LAKE ELSINORE, CA 92530 PH: 800 358-9095

| No. | Date | Description |
|---|---|---|

LIFT STATION DETAILS
McDONALD'S
2109 E. SANTA CLARA AVE
SANTA ANA, CA
Date: 04/19/23 Scale: NTS
Drawn by: DM Sheet No. 1 OF 1
Checked by:
LSD-1

PSI SINGLE STAGE SUMP PUMP
N.T.S.
(2)

Underground Service Alert
of Southern California
CALL BEFORE YOU DIG
CALL: TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

NOTICE TO CONTRACTOR
*PURSUANT TO ASSEMBLY BILL 3019 NO EXCAVATION PERMIT IS VALID UNLESS THE CONTRACTOR CONTACTS AND OBTAINS AN INQUIRY I.D. NUMBER FROM "UNDERGROUND SERVICE ALERT" (1-800-422-4133) AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING EXCAVATION.*

FILE NO.:

REVISIONS

| NUMBER | DATE | INITIALS | DESCRIPTION | APPROVED | INSTALLED |
|---|---|---|---|---|---|

REFERENCES

BENCHMARK NO.: 3C-26-06 ELEV.: 173.744' NAVD88
THE ON-SITE BENCHMARK IS BASED ON NAVD 1988 DATUM, AND IS A SET MAG NAIL AND SHINER AT THE NORTHEAST CORNER OF PARCEL 2. ELEVATION = 193.65 FEET.
THE BASIS OF BEARING IS THE CENTERLINE OF SANTA CLARA AVENUE PER TRACT MAP NO. 14568, BOOK 695, PAGE 47, COUNTY OF ORANGE, A BEARING OF N89°59'50"E.
CONSTRUCTION COMPLETED:

ENGINEERS SEAL
REGISTERED PROFESSIONAL ENGINEER HANNAH M. L. NO. 90371 CIVIL STATE OF CALIFORNIA
NOT FOR CONSTRUCTION

PREPARED UNDER THE SUPERVISION OF: HANNAH LUEVANO
SENIOR CIVIL ENGINEER RCE NO.: 90371
DESIGNED: HS DRAWN: MH CHECKED: HS
DATE 6/29/2023

REVIEWED FOR CONSTRUCTABILITY AND RECOMMENDED FOR CONSTRUCTION: JASON GABRIEL
PRINCIPAL CIVIL ENGINEER RCE NO.: 62968
XX/YYYY

PROPOSED DRIVE-THRU RESTAURANT
2109 E SANTA CLARA AVENUE
SANTA ANA, CA 92705

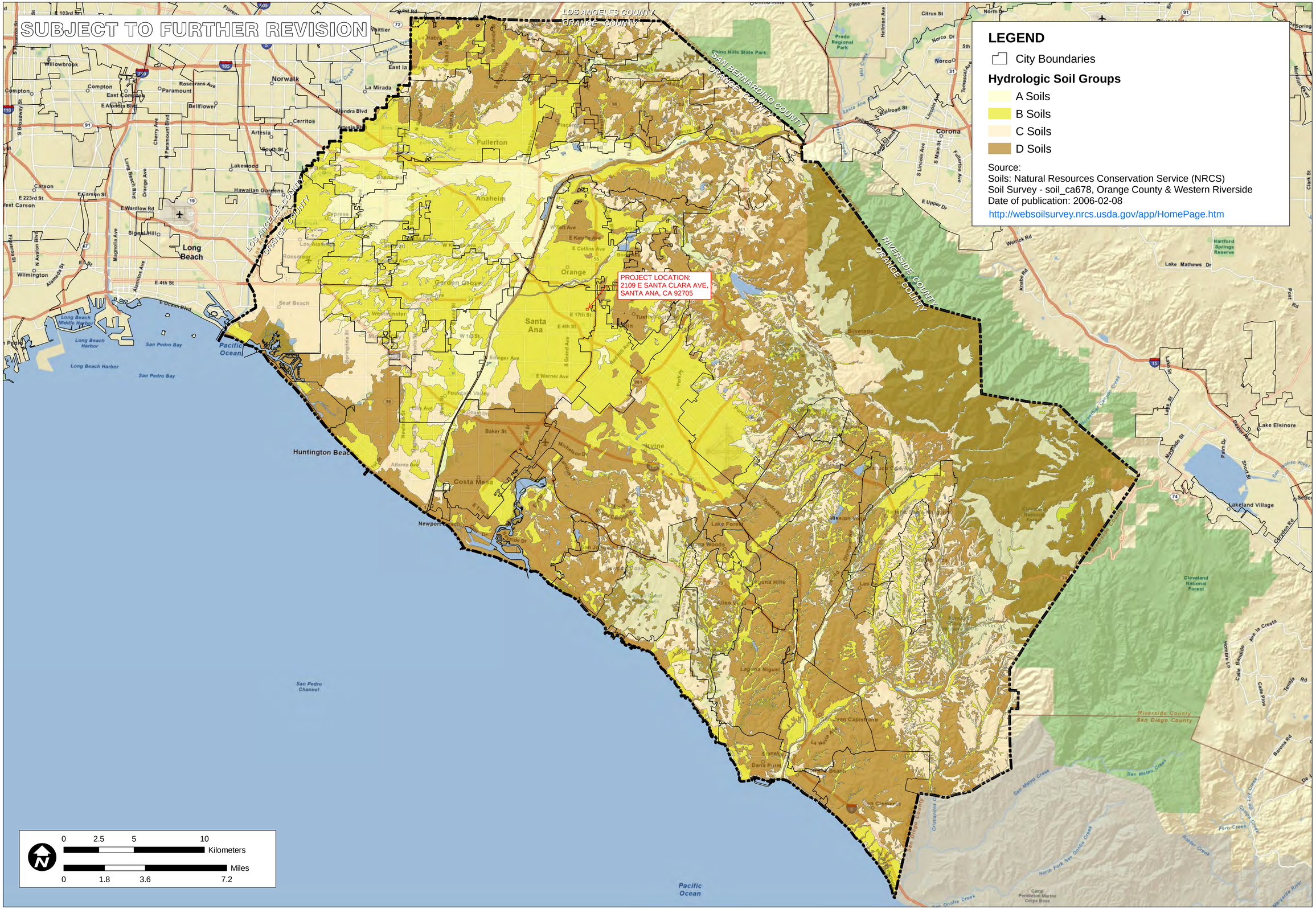
PUBLIC WORKS AGENCY
CITY OF SANTA ANA

CONSTRUCTION DETAILS

SHEET NO. C8.3

PROJECT NO. YY-NNNN: PROJECT TITLE PROJECT LIMITS

# Attachment D
# County Soils and Rainfall Maps




P:\9526E\6-GIS\Mxds\Reports\InfiltrationFeasability_20110215\9526E_FigureXVI-2a_HydroSoils_20110215.mxd

TITLE

NRCS HYDROLOGIC SOILS GROUPS

JOB

ORANGE COUNTY INFILTRATION STUDY

ORANGE CO. CA

| | |
|---|---|
| SCALE | 1" = 1.8 miles |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 02/09/11 |
| JOB NO. | 9526-E |

PACE Advanced Water Engineering

FIGURE

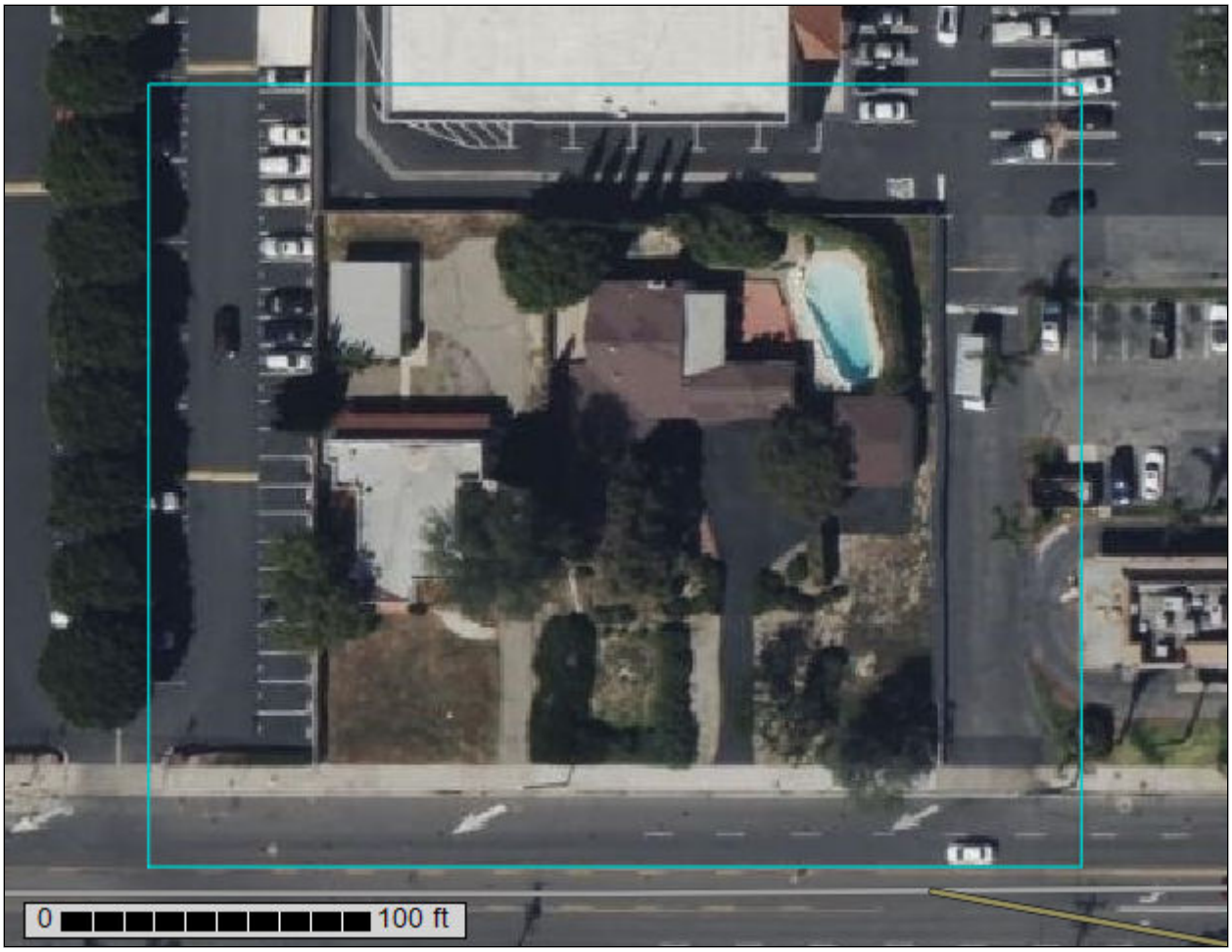
XVI-2a

United States Department of Agriculture

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Orange County and Part of Riverside County, California




October 4, 2022

# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report
## Soil Map

Map Scale: 1:650 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 5 10 20 30

Feet: 0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

## MAP LEGEND

**Area of Interest (AOI)**

- Area of Interest (AOI)

**Soils**

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

**Special Point Features**

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

**Water Features**

- Streams and Canals

**Transportation**

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**

- Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Orange County and Part of Riverside County, California
Survey Area Data: Version 16, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 14, 2022—Mar 17, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

## MAP LEGEND

## MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

# Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|---|---|---|---|
| 166 | Mocho loam, 0 to 2 percent slopes, warm MAAT, MLRA 19 | 1.7 | 100.0% |
| **Totals for Area of Interest** | | **1.7** | **100.0%** |

# Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# Orange County and Part of Riverside County, California

## 166—Mocho loam, 0 to 2 percent slopes, warm MAAT, MLRA 19

### Map Unit Setting

*National map unit symbol:* 2tyyv
*Elevation:* 20 to 1,920 feet
*Mean annual precipitation:* 12 to 18 inches
*Mean annual air temperature:* 62 to 66 degrees F
*Frost-free period:* 320 to 365 days
*Farmland classification:* Prime farmland if irrigated

### Map Unit Composition

*Mocho and similar soils:* 85 percent
*Minor components:* 15 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Mocho

#### Setting

*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Parent material:* Alluvium derived from sedimentary rock

#### Typical profile

*Ap - 0 to 10 inches:* loam
*A - 10 to 16 inches:* loam
*Bk1 - 16 to 34 inches:* loam
*Bk2 - 34 to 60 inches:* loam

#### Properties and qualities

*Slope:* 0 to 2 percent
*Depth to restrictive feature:* More than 80 inches
*Drainage class:* Well drained
*Runoff class:* Low
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 1.98 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Calcium carbonate, maximum content:* 10 percent
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
*Available water supply, 0 to 60 inches:* High (about 9.8 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified
*Land capability classification (nonirrigated):* 3e
*Hydrologic Soil Group:* B
*Ecological site:* R019XD029CA - LOAMY
*Hydric soil rating:* No

### Minor Components

#### Sorrento

*Percent of map unit:* 6 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

#### Bolsa, silt loam, drained

*Percent of map unit:* 3 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

#### Anacapa

*Percent of map unit:* 2 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

#### Hueneme

*Percent of map unit:* 2 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

#### Mocho, 2 to 9 percent slopes

*Percent of map unit:* 1 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

#### Chino, drained

*Percent of map unit:* 1 percent
*Landform:* Alluvial fans
*Landform position (three-dimensional):* Tread
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Hydric soil rating:* No

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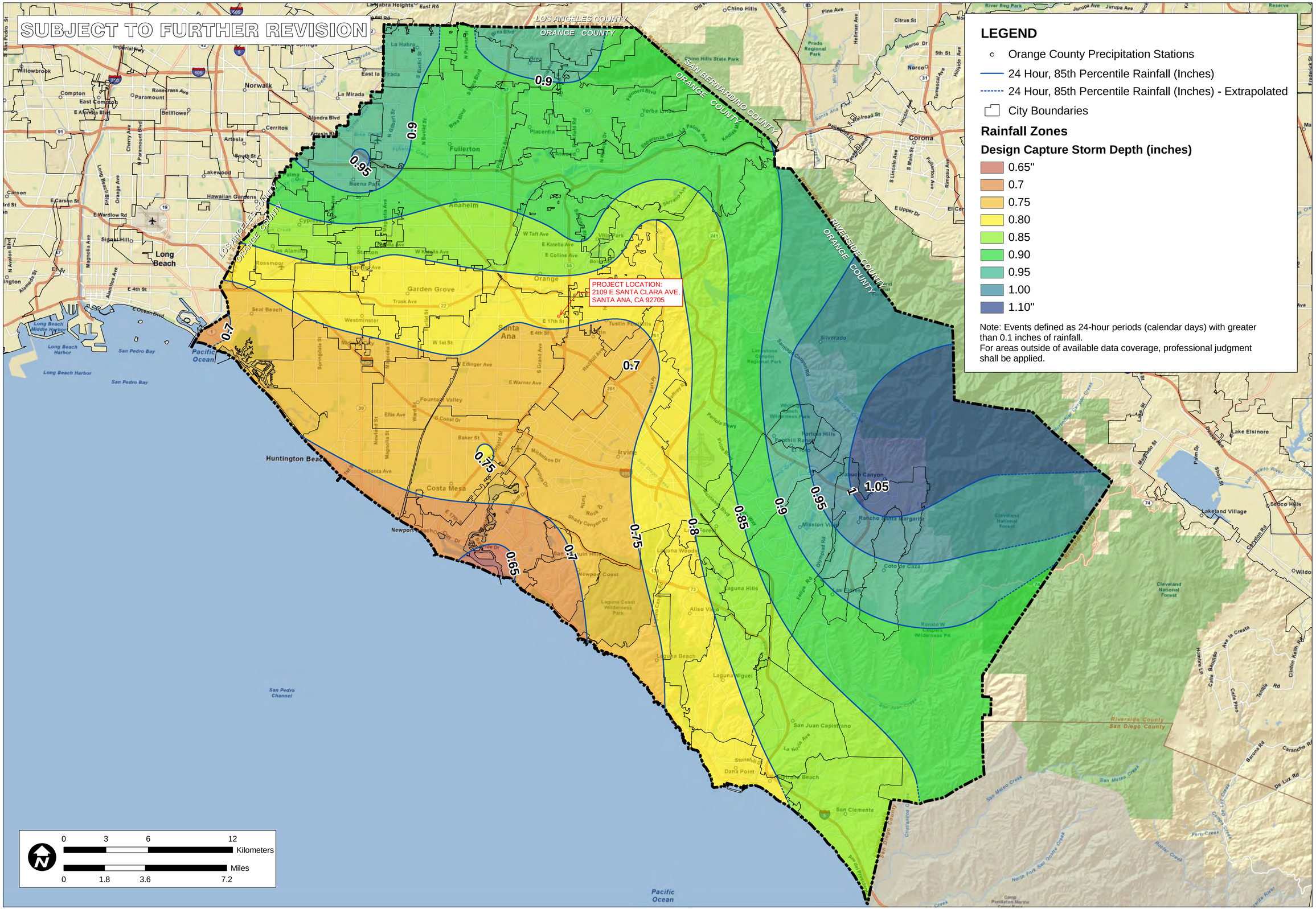
SUBJECT TO FURTHER REVISION




TITLE

RAINFALL ZONES

JOB

ORANGE COUNTY
TECHNICAL GUIDANCE
DOCUMENT

ORANGE CO.

CA

| | |
|---|---|
| SCALE | 1" = 1.8 miles |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 04/22/10 |
| JOB NO. | 9526-E |

PACE
Advanced Water Engineering

FIGURE

XVI-1

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# Attachment E
# Groundwater Feasibility

SUBJECT TO FURTHER REVISION

## LEGEND

- City Boundaries
- OCWD Groundwater Basin Protection Boundary

**Plume Protection Boundaries**

- North Basin Groundwater Protection Project
- South Basin Groundwater Protection Project
- El Toro Marine Base
- Tustin Marine Air Base
- Approximate Selenium Contamination Area

Note: Individual contamination sites are not plotted.
See State Water Resources Control Board Geotracker database (http://geotracker.waterboards.ca.gov),
Department of Toxic Substance Control Envirostor database (http://www.envirostor.dtsc.ca.gov) and other applicable sources for current listing of active contaminated sites.

Groundwater basin and plume protection boundaries for South Orange County are not shown on this exhibit at this time

PROJECT LOCATION:
2109 E SANTA CLARA AVE,
SANTA ANA, CA 92705

LOS ANGELES COUNTY
ORANGE COUNTY
SAN BERNARDINO COUNTY
ORANGE COUNTY
RIVERSIDE COUNTY
ORANGE COUNTY
LOS ANGELES COUNTY
ORANGE COUNTY

0 2 4 8 Kilometers
0 1.25 2.5 5 Miles

TITLE
NORTH ORANGE COUNTY GROUNDWATER PROTECTION AREAS

JOB
ORANGE COUNTY INFILTRATION STUDY
ORANGE CO. CA

| | |
|---|---|
| SCALE | 1" = 1.25 miles |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 04/22/10 |
| JOB NO. | 9526-E |

PACE Advanced Water Engineering

FIGURE
XVI-2f

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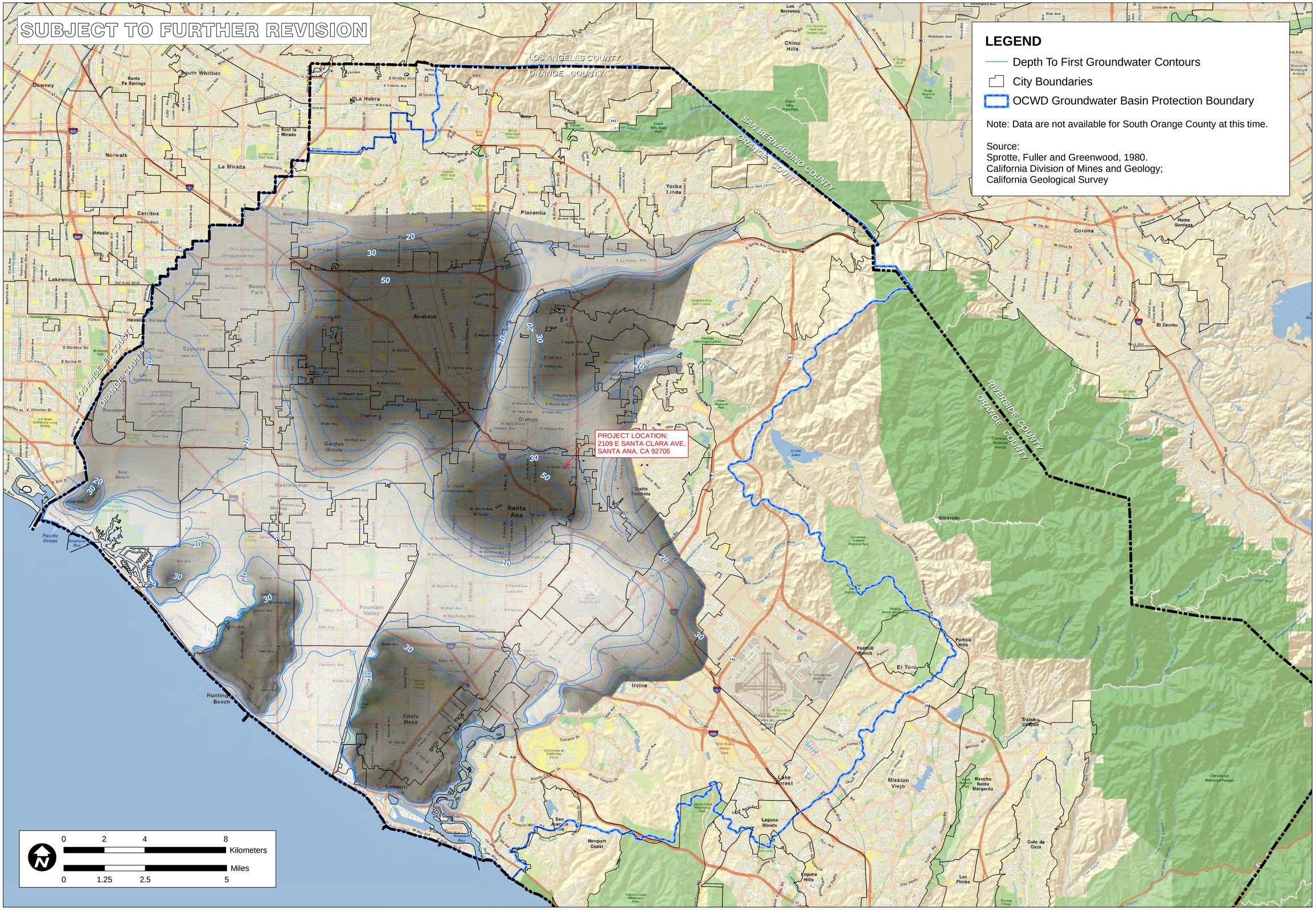
SUBJECT TO FURTHER REVISION

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TITLE
NORTH ORANGE COUNTY
MAPPED DEPTH TO FIRST
GROUNDWATER

JOB
ORANGE COUNTY
INFILTRATION STUDY
ORANGE CO. CA

| | |
|---|---|
| SCALE | 1" = 1.25 miles |
| DESIGNED | TH |
| DRAWING | TH |
| CHECKED | BMP |
| DATE | 02/09/11 |
| JOB NO. | 9526-E |

PACE
Advanced Water Engineering

FIGURE
XVI-2d

**Worksheet I: Summary of Groundwater-related Feasibility Criteria**

| | | | | |
|---|---|---|---|---|
| 1 | Is project large or small? (as defined by **Table VIII.2**) circle one | Large | | Small |
| 2 | What is the tributary area to the BMP? | A | 0.72 | acres |
| 3 | What type of BMP is proposed? | Biotreatment System | | |
| 4 | What is the infiltrating surface area of the proposed BMP? | $A_{BMP}$ | 240 | sq-ft |
| 5 | What land use activities are present in the tributary area (list all)<br>Commercial restaurant with drive through | | | |
| 6 | What land use-based risk category is applicable? | L | M | H |
| 7 | If M or H, what pretreatment and source isolation BMPs have been considered and are proposed (describe all):<br>Full trash capture system will be implemented to satisfy State Board requirements | | | |
| 8 | What minimum separation to mounded seasonally high groundwater applies to the proposed BMP? See Section **VIII.2** (circle one) | 5 ft | | 10 ft |
| 9 | Provide rationale for selection of applicable minimum separation to seasonally high mounded groundwater:<br>The project site mounded seasonally high ground water level is approximately 30 feet and the infiltration BMP depth is 5 feet which equates to a 25 foot separation. According to Section VIII.2, "if the mounded seasonally high ground water level is greater than 15 feet, the depth of groundwater does not constrain infiltration". Therefore, the minimum separation of a 5 foot deep BMP and a 15 foot groundwater level is 10 feet. | | | |
| 10 | What is separation from the infiltrating surface to seasonally high groundwater? | SHGWT | 25 | ft |
| 11 | What is separation from the infiltrating surface to mounded seasonally high groundwater? | Mounded SHGWT | | ft |
| 12 | Describe assumptions and methods used for mounding analysis:<br>N/A | | | |
| 13 | Is the site within a plume protection boundary (See **Figure** | Y | N | N/A |

**Worksheet I: Summary of Groundwater-related Feasibility Criteria**

| | | |
|---|---|---|
| | VIII.2)? | |
| 14 | Is the site within a selenium source area or other natural plume area (See Figure VIII.2)? | Y N N/A |
| 15 | Is the site within 250 feet of a contaminated site? | Y N N/A |
| 16 | If site-specific study has been prepared, provide citation and briefly summarize relevant findings:<br>N/A | |
| 17 | Is the site within 100 feet of a water supply well, spring, septic system? | Y N N/A |
| 18 | Is infiltration feasible on the site relative to groundwater-related criteria? | Y N |
| Provide rationale for feasibility determination:<br>N/A | | |

Note: if a single criterion or group of criteria would render infiltration infeasible, it is not necessary to evaluate every question in this worksheet.

# Attachment F
# Geotechnical Report

UNIVERSAL
ENGINEERING SCIENCES

# Geotechnical Engineering Report

## Proposed McDonalds Restaurant
## 2109 E Santa Clara Avenue
## Santa Ana, California 92705

**Prepared for:**
**McDonald's USA**
**18565 Jamboree Road, Ste. 850**
**Irvine, CA 92612**

**November 4, 2021**

**Project No.: 4230.2100035.0000**

November 4, 2021
Project No. 4230.2100035.0000

Ms. Christine Cho
**McDonalds USA**
18565 Jamboree Road, Ste. 850
Irvine, CA 92612

**Subject: Geotechnical Engineering Report**
**Proposed McDonald's Restaurant**
**2109 E Santa Clara Avenue,**
**Santa Ana, California 92705**

Dear Ms. Cho:

In accordance with your request and authorization, we are presenting the results of our geotechnical investigation for the proposed project located at 2109 E Santa Clara Avenue in the city of Santa Ana, California 92705. The purpose of this investigation has been to evaluate the subsurface conditions at the site and to provide geotechnical engineering recommendations for the proposed construction.

Based on our findings, the proposed project is geotechnically feasible, provided that the recommendations in this report are incorporated into the design and are implemented during construction of the project. This report was prepared in accordance with the requirements of the 2019 California Building Code.

We appreciate the opportunity to be of service on this project. Should you have any questions regarding this report or if we can be of further service, please do not hesitate to contact the undersigned.

Respectfully submitted,

**UNIVERSAL ENGINEERING SCIENCES**

Nadim Sunna, MS, PE, GE 3172
Senior Geotechnical Engineer

REGISTERED PROFESSIONAL ENGINEER
NADIM T SUNNA
Type text here
GE 3172
GEOTECHNICAL
STATE OF CALIFORNIA

Alexia Mackey
Staff Scientist

Distribution: one PDF document via email to Addressee

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Table A – Preliminary Design Infiltration Rates Summary
Table B – 2019 California Building Code Design Parameters
Table C – Foundation Design Parameters
Table D - Recommended Minimum HMA and Base Section Thicknesses

**Appendices**

Appendix A – Field Exploration and Boring Logs
Appendix B – Laboratory Testing
Appendix C – Infiltration Test Result

## 1. INTRODUCTION

This report presents the results of our geotechnical engineering evaluation performed for the proposed single story at-grade McDonald's restaurant and parking lot at 2109 E Santa Clara Avenue, Santa Ana, California (Figure 1, Site Location Map). The purpose of this study has been to evaluate the subsurface conditions at the site and to provide geotechnical recommendations related to the design and construction of the proposed structures.

## 2. SITE DESCRIPTION AND PROPOSED DEVELOPMENT

The project site is located at 2109 E Santa Clara Avenue in the City of Santa Ana, California as shown on Figure 1. At the time of exploration, the subject site was a residential plot with two houses and two detached garages. It is our understanding that the proposed project consists of the development of a single story at-grade McDonald's restaurant and parking lot. The approximate site coordinates are latitude 33.76749°N and longitude 117.83683°W and is located at approximately 188 feet above Mean Sea Level (MSL).

## 3. SCOPE OF WORK

To prepare this report, we have performed the following tasks:

### 3.1. Literature Review

We reviewed readily available background data including in-house geologic maps, topographic maps, and aerial photographs relevant to the subject site in preparation of this report. The list of documents reviewed is presented in the "References" section of this report.

### 3.2. Engineering Analyses and Report Preparation

We compiled and analyzed the data collected from our site reconnaissance, subsurface evaluation, and laboratory testing, and prepared this report to present our conclusions and recommendations, including:

- Evaluation of general subsurface conditions and description of types, distribution, and engineering characteristics of subsurface materials
- Evaluation of site-specific seismic design parameters in accordance with 2019 California Building Code
- Evaluation of current and historic high groundwater conditions at the site and potential impact on the existing structures and site development
- Evaluation of project feasibility and suitability of on-site soils for foundation support
- Evaluation of foundation design parameters including soil bearing capacity, lateral resistance, friction coefficient, and seismic considerations
- Evaluation of the potential for the on-site materials to corrode buried concrete and metals

### 3.3. Field Exploration

The field exploration consisted of excavating five (5) 8-inch-diameter exploratory borings at various locations within the subject site on October 8, 2021. The borings were advanced to depths ranging from 5 to 21.5 feet below the existing grade. The drilling operation was performed using a hollow-stem auger drill rig. The borings were backfilled with the soil cuttings at the end of field exploration.

The approximate locations of the borings are shown on Figure 2 – Site Plan and Boring Location Map. Detailed exploration information of soil borings is presented in Appendix A.

### 3.4. Geotechnical Laboratory Testing

Laboratory tests were performed on selected samples obtained from the borings in order to aid in the soil classification and to evaluate the engineering properties of the foundation soils. Laboratory tests included in-situ moisture and density, #200 sieve wash, sieve analysis, Atterberg limits, direct shear tests, Expansion Index, consolidation, corrosion testing, and R-values. The detailed laboratory test results are presented in Appendix B.

## 4. SITE GEOLOGY AND SUBSURFACE CONDITIONS

### 4.1. Regional Geologic Setting

According to the preliminary geologic map of the Santa Ana Quadrangle (Morton, 2003), the project site is underlain by undifferentiated young alluvial deposit (map symbol: Qyf) that typically consists of unconsolidated to slightly consolidated, undissected to slightly dissected boulders, cobbles, gravels, sands, and silt deposits issued from a confined valley or canyon.

### 4.2. Subsurface Earth Materials

Earth materials encountered during our subsurface investigation consists of fill overlaying the young alluvial fan deposits (Qyf). In general, the soil consists of light brown to brown, dry to damp, medium dense to very dense, clayey and silty sands.

### 4.3. Groundwater

Groundwater was not encountered during our subsurface investigation to a maximum depth of 21.5 feet below the existing grade. Based on our review of nearby well data (Well337646N1178432W002), the highest groundwater level is reportedly situated at a depth of approximately 214 feet below the ground surface, which was recorded on March 12$^{th}$, 2021. Historic high groundwater is 30 feet below the ground surface. Groundwater conditions may vary across the site due to stratigraphic and hydrologic conditions and may change over time as a consequence of seasonal and meteorological fluctuations, or of activities by humans at this and nearby sites. Based on our findings, we note that the potential for groundwater to impact the proposed improvements is considered low.

# 5. GEOLOGIC HAZARDS AND FINDINGS

## 5.1. Surface Fault Rupture

The subject site is not located within a State of California Alquist-Priolo Earthquake Fault Zone (formerly known as a Special Studies Zone) (CGS, 2018). No active faults are known to underlie or project towards the site. It is our opinion that the likelihood of fault rupture occurring at the site during the design life of the proposed improvements is low.

## 5.2. Liquefaction and Seismic Settlement Potential

Liquefaction occurs when the pore pressures generated within a soil mass approach the effective overburden pressure. Liquefaction of soils may be caused by cyclic loading such as that imposed by ground shaking during earthquakes. The increase in pore pressure results in a loss of strength, and the soil then can undergo both horizontal and vertical movements, depending on the site conditions. Other phenomena associated with soil liquefaction include sand boils, ground oscillation, and loss of foundation bearing capacity. Liquefaction is generally known to occur in loose, saturated, relatively clean, fine-grained cohesionless soils at depths shallower than approximately 50 feet. Factors to consider in the evaluation of soil liquefaction potential include groundwater conditions, soil type, grain size distribution, relative density, degree of saturation, and both the intensity and duration of ground motion.

The current standard of practice, as outlined in the “Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California” and “Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California” requires liquefaction analysis to a depth of 50 feet below the lowest portion of the proposed structure. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

A review of the State of California Seismic Hazard Zone Map for the Orange Quadrangle indicates the site is not located within an area identified as having a potential for liquefaction. Additionally, based on the lack of shallow ground water, and uniform soil stratum, the potential for liquefaction to impact the proposed improvements is considered low.

## 5.3. Landslides

Based on our review of the referenced geologic maps, literature, topographic maps, aerial photographs, and our subsurface evaluation, no landslides or related features underlie or are adjacent to the subject site. Due to the relatively level and limited gradient changes of the site and surrounding areas, the potential for landslides at the project site is considered low to negligible.

## 5.4. Flooding

The Federal Emergency Management Agency (FEMA) has prepared flood insurance rate maps (FIRMs) for use in administering the National Flood Insurance Program. Based on our review of the FEMA (2008) flood map, the site is outside the 0.2% annual chance (500-year) floodplain.

### 5.5. Tsunamis and Seiches

Tsunamis are waves generated by massive landslides near or under sea water. The site is not located on any State of California – County of Orange Tsunami Inundation Map for Emergency Planning. The potential for the site to be adversely impacted by earthquake-induced tsunamis is considered to be negligible because the site is located approximately 19 kilometers (12.0 miles) inland from the Pacific Ocean shore, at an elevation exceeding the maximum height of potential tsunami inundation.

Seiches are standing wave oscillations of an enclosed water body after the original driving force has dissipated. The potential for the site to be adversely impacted by earthquake-induced seiches is considered to be low due to the lack of any significant enclosed bodies of water located in the vicinity of the site.

## 6. GEOTECHNICAL ENGINEERING FINDINGS

### 6.1. Rippability

Based on our subsurface exploration of the site, the near-surface materials should be generally excavatable with heavy-duty earthwork equipment in good working condition.

### 6.2. Caving Potential

In general, the near surface sandy soils have a low to moderate potential for caving. We recommend that the geotechnical engineer should be notified immediately if severe caving conditions are encountered during excavations to provide further mitigation recommendations.

### 6.3. Expansive Soils

Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content the onsite fill consists of sandy silt within the soils encountered near the ground surface. Generally, this material exhibits “very low” expansion potential.

### 6.4. Corrosive Soils

The potential for the on-site materials to corrode buried steel and concrete improvements was evaluated. Laboratory testing was performed on representative soil samples to evaluate pH, minimum resistivity, and soluble chloride and sulfate contents. General recommendations to address the corrosion potential of the on-site soils are provided below. Imported fill materials, if used, should be tested to evaluate whether their corrosion potential is more severe than those assumed.

#### 6.4.1. Sulfate Exposure

Laboratory tests indicate that the potential of sulfate attack on concrete in contact with the on-site soils is “negligible” or “S0” exposure in accordance with ACI 318, Table 19.3.1.1. Therefore, restriction on the type of cement, water to cement ratio, and compressive strength is not required from a geotechnical standpoint. Ferrous Metals

The results of the laboratory chemical tests performed on a sample of soil collected within the site indicate that the on-site soils are moderately corrosive to ferrous metals. Consequently, metal structures which will be in direct contact with the soil (i.e., underground metal conduits, pipelines, metal sign posts, etc.) and/or in close proximity to the soil (wrought iron fencing, etc.) may be subject to corrosion. The use of special coatings or cathodic protection around buried metal structures has been shown to be beneficial in reducing corrosion potential. Additional provisions will be required to address high chloride contents of the soil per the 2019 CBC to protect the concrete reinforcement. The laboratory testing program performed for this project does not address the potential for corrosion to copper piping. In this regard, a corrosion engineer should be consulted to perform more detailed testing and develop appropriate mitigation measures (if necessary).

### 6.5. Infiltration Testing

Two (2) preliminary percolation tests were performed on October 9, 2021, to evaluate the potential of infiltrating stormwater into the site soils and determine a preliminary design infiltration rate for initial design of the planned BMPs. The borings are shown on the attached Figure 2 – Site Plan and Boring Location Map, were excavated to depth of 5 feet below the existing grade. The infiltration test data was utilized to determine the preliminary design infiltration rates as provided in Table A below.

**Table A: Preliminary Design Infiltration Rates Summary**

| Boring No. | Depth Below Existing Grade (feet) | Observed Infiltration Rates (inches/hour) |
|---|---|---|
| P-1 | 5 | 0.22 |
| P-2 | 5 | 0.18 |

Based on our preliminary infiltration testing, we note that infiltration of stormwater into the site soils is deemed not feasible. Therefore, alternate means of storing and disposing of stormwater should be evaluated by the project civil engineer. Our percolation testing data is presented within Appendix C, Infiltration Test Result.

## 7. GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

### 7.1. General Conclusion

Based on the results of our field exploration and engineering analyses, it is our opinion that the proposed development is feasible from a geotechnical standpoint, provided that the recommendations in this report are incorporated into the design plans and are implemented during construction.

The following is a summary of the geotechnical considerations for this project:

- Groundwater was not encountered during subsurface investigation, and it is not expected to impact the proposed development.
- Infiltration of stormwater into the site soils is deemed not feasible based on our preliminary testing.

- The site is not subject to liquefaction and associated liquefaction settlement due to the lack of shallow groundwater and uniform soil stratum.
- The potential for landslide, flooding, tsunami and seiches to impact the proposed improvement is considered low.
- The site is not located within an AP Zone, however, it is subject to intense ground shaking during a seismic event.
- The onsite near-surface soils are expected to exhibit a very low expansion potential.
- The onsite near-surface soils are considered to have negligible exposure to sulfate, however, are moderately corrosive to ferrous metals.
- We recommend that new foundations be embedded into engineered fill material.

Our geotechnical engineering analyses performed for this report were based on the earth materials encountered during the subsurface exploration for the site. If the design substantially changes, then our geotechnical engineering recommendations would be subject to revision based on our evaluation of the changes. The following sections present our conclusions and recommendations pertaining to the engineering design for this project.

## 7.2. Site Preparation and Earthwork

In general, earthwork should be performed in accordance with the recommendations presented in this report. UES should be contacted for questions regarding the recommendations or guidelines presented herein.

### 7.2.1. General Grading Recommendations

Site preparation should begin with the removal of utility lines, asphalt, concrete, vegetation, and other deleterious debris from areas to be graded. Tree stumps and roots should be removed to such a depth that organic material is generally not present. Clearing and grubbing should extend to the outside edges of the proposed excavation and fill areas. We recommend that unsuitable materials such as organic matter or oversized material be selectively removed and disposed offsite. The debris and unsuitable material generated during clearing and grubbing should be removed from areas to be graded and disposed at a legal dump site away from the project area.

### 7.2.2. Remedial Grading

Based on our field exploration and engineering analysis, we recommend that the new building foundations be supported on 2 feet of engineered fill material. On this basis, we recommend that the building pad be excavated to 2 feet below the bottom of the footings. The excavation should extend laterally a minimum of 2 feet from the edge of the new footings.

Pavement and/or sidewalk areas should be over-excavated to a depth of at least 12 inches below the bottom of the pavement section (i.e., aggregate base) whichever is lower. Deeper removals may be required in areas where soft, saturated, or unsuitable materials are encountered.

For trash enclosure and site walls foundations, we recommend that the foundations be supported on competent engineered fill.

The extent and depths of removal should be evaluated by soil engineer in the field based on the materials exposed. Additional removals may be recommended if loose or soft soils are exposed during grading.

### 7.2.3. Materials for Fill

On-site soils are suitable to be reused for compaction effort. However, the underlying alluvium with an organic content of less than 3 percent by volume (or 1 percent by weight) are suitable for use as fill. Soil material to be used as fill should not contain contaminated materials, rocks, or lumps over 4 inches in largest dimension, and not more than 40 percent larger than ¾ inch. Utility trench backfill material should not contain rocks or lumps over 3 inches in largest dimension. Larger chunks, if generated during excavation, may be broken into acceptably sized pieces or may be disposed offsite.

Any imported fill material should consist of granular soil having a “very low” expansion potential (that is, expansion index of 20 or less). Import material should also have low corrosion potential (that is, chloride content less than 500 parts per million [ppm], soluble sulfate content of less than 0.1 percent, and pH of 5.5 or higher). Materials to be used as fill should be evaluated by UES prior to importing or filling.

### 7.2.4. Compacted Fill

Prior to placement of compacted fill, the contractor should request an evaluation of the exposed excavation bottom by UES. Unless otherwise recommended, the exposed ground surface should then be scarified to a depth of approximately 6 inches and watered or dried, as needed, to achieve generally consistent moisture contents of 2 percent above optimum moisture content. The scarified materials should then be compacted to 90 percent relative compaction in accordance with the latest version of ASTM Test Method D1557.

Compacted fill should be placed in horizontal lifts of approximately 6 to 8 inches in loose thickness. Prior to compaction, each lift should be watered or dried as needed to achieve 2 percent above optimum moisture condition, mixed, and then compacted by mechanical methods, using sheepsfoot rollers, multiple-wheel pneumatic-tired rollers, or other appropriate compacting rollers, to a relative compaction of 90 percent as evaluated by ASTM D1557. Successive lifts should be treated in a like manner until the desired finished grades are achieved. Within pavement areas, the upper 12-inches of subgrade soil should be compacted to 95 percent relative compaction evaluated by ASTM D1557.

### 7.2.5. Temporary Excavations

Temporary excavations for the demolition, earthwork, footings, and utility trenches are expected to be up to 4 feet in height. Due to relatively loose condition of shallow onsite soils, temporary, unsurcharged excavation sides should be sloped no steeper than an inclination of 1H:1V (horizontal: vertical). Where sloped excavations are created, the tops of the slopes should be barricaded so that vehicles and storage loads do not encroach within 10 feet of the top of the excavated slopes. A greater setback may be necessary when considering heavy vehicles, such as concrete trucks and cranes. UES should be advised of such heavy vehicle loadings so that specific setback requirements can be established. If the temporary

construction slopes are to be maintained during the rainy season, berms are recommended to be graded along the tops of the slopes in order to prevent runoff water from entering the excavation and eroding the slope faces.

UES should observe the excavations so that any necessary modifications based on variations in the encountered soil conditions can be made. All applicable safety requirements and regulations, including CalOSHA requirements, should be met.

### 7.3. Seismic Design Parameters

Our recommendations for seismic design parameters have been developed in accordance with 2019 CBC and ASCE 7-16 (ASCE, 2016) standards. The applicable site class is D based on the results of our field investigation. Table B: 2019 California Building Code Design Parameters presents the seismic design parameters for the site in accordance with 2019 CBC.

**Table B: 2019 California Building Code Design Parameters**

| Design Parameters | Value |
|---|---|
| Site Class | D |
| Mapped Spectral Acceleration Parameter at Period of 0.2-Second, $S_s$ | 1.324 g |
| Mapped Spectral Acceleration Parameter at Period 1-Second, $S_1$ | 0.472 g |
| Site Coefficient, $F_a$ | 1.0 |
| Site Coefficient, $F_v$ | 1.83 |
| Adjusted $MCE_R$ Spectral Response Acceleration Parameter at Short Period, $S_{MS}$ | 1.324 g |
| 1-Second Period Adjusted $MCE_R$[1] Spectral Response Acceleration Parameter, $S_{M1}$ | 0.864 |
| Short Period Design Spectral Response Acceleration Parameter, $S_{DS}$ | 0.883 |
| 1-Second Period Design Spectral Response Acceleration Parameter, $S_{D1}$ | 0.576 |
| Peak Ground Acceleration, $PGA_M$ | 0.609g |
| Seismic Design Category | D |

Notes: Since the Site Class is designated as D and the S1 value is greater than or equal to 0.2, the 2019 CBC requires either a site-specific seismic hazard analysis per Section 21.2 of ASCE 7-16 or the application of Exception 2 of Section 11.4.8 of ASCE 7-16. The project structural engineer should apply all requirements of Section 11.4.8 of ASCE 7-16.

### 7.4. Foundation Recommendations

A shallow foundation system may be used for support of the proposed building, provided that all the footings are placed on engineered fill prepared as described in the “Remedial Grading” section of this report.

Our geotechnical foundation design parameters are presented in Table C: Geotechnical Design Parameters for Foundation, below.

**Table C: Geotechnical Design Parameters for Foundation**

| Design Parameters | Values |
|---|---|
| **Bearing Material** | • Engineering Fill<br>• See Remedial Grading section of this report. |
| **Minimum Footing Dimensions** | • At least 12 inches in width and at least 18 inches in depth. |
| **Allowable Bearing Pressure** | • An allowable bearing capacity of 2,500 psf may be used for the design of foundations found on engineered fill.<br>• For miscellaneous and lightly-loaded auxiliary foundations such as trash enclosures, an allowable bearing pressure of 1,800 pounds per square foot (psf) may be used.<br>• For light pole foundations that are embedded a minimum of 4 feet below the finish grade, an allowable bearing capacity of 3,000 psf may be used.<br>• The allowable bearing values may be increased by one-third for transient loads from wind or earthquake. |
| **Estimated Static Settlement** | • Less than 1 inches total settlement with differential settlement estimated to be less than 0.5 inch over a span 30 feet. |
| **Allowable Coefficient of Friction Below Footings** | 0.35 |
| **Unfactored Lateral Passive Resistance** | 250 pcf (equivalent fluid pressure)<br>Maximum allowable of 2,500 psf |

As mentioned above, the structural building loads are not provided to us at this time and since the settlement criteria may control the design, the allowable bearing pressure for the proposed foundation may be revisited for the final design, once loading data becomes available.

### 7.5. Concrete Slab-On-Grade

At minimum the building slab-on-grade should be at least 5 inches in thickness and should be reinforcement with a minimum of No. 4 bars spaced at 18 inches on-center. Final design of the slab should be provided by the project structural engineer.

All concrete slabs-on-grade should be supported on vapor retarder. The design of the slab and the installation of the vapor retarder should comply with the most recent revisions of ASTM E 1643 and ASTM E 1745. The vapor retarder should comply with ASTM E 1745 Class A requirements. At minimum, the vapor retarder should consists of 15 mil Stegowrap or equivalent.

Where a vapor retarder is used, a low-slump concrete should be used to minimize possible curling of the slabs. Sand above the vapor retarder is outside of UES purview and should be in accordance with the structural engineer's recommendation.

UES does not practice in the field of moisture vapor transmission evaluation and mitigation. Therefore, it is recommended that a qualified consultant be engaged to evaluate the general and specific moisture vapor transmission paths and any impact on the proposed construction. The qualified consultant should provide recommendations for mitigation of potential adverse impacts of moisture vapor transmission on various components of the structure. Where dampness would be objectionable, it is recommended that the floor slabs should be waterproofed. A qualified waterproofing consultant should be retained in order to recommend a product or method which would provide protection for concrete slabs-on-grade.

The recommendations presented above are intended to reduce the potential for cracking of slabs; however, even with the incorporation of the recommendations presented herein, slabs may still exhibit some cracking. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics.

### 7.6. Flexible Pavement Design

Our pavement structural design is in accordance with Chapter 600 of the Caltrans Highway Design Manual, which is based on a relationship between the gravel equivalent (GE) of the pavement structural materials, the traffic index (TI), and the R-value of the underlying subgrade soil.

Based on an R-value test result of 17 and an assumed TI's of 4, 5.5 and 7, we have determined the minimum structural sections as provided within Table C below. The assumed R-value should be verified during rough grading by UES prior to placement of the aggregate base.

**Table D – Recommended Minimum HMA and Base Section Thicknesses**

| Location | Parking Stalls | Drive Aisle | Firelane / Truck Driveway |
|---|---|---|---|
| **Traffic Index** | **4.0** | **5.5** | **7.0** |
| HMA Thickness (in) | 4.0 | 4.0 | 6.0 |
| Aggregate Base Thickness (in) | 4.0 | 8.0 | 10.0 |

Prior to construction of the pavement sections provided above, the subgrade for the proposed pavement should be moisture conditioned to a depth of 12 inches and compacted to achieve 95 percent. The aggregate base section should then be placed, moisture conditioned to near optimum moisture content and compacted to achieve 95 percent relative compaction. The HMA section should be in accordance with the City of Santa Ana requirements and should be compacted to 95 percent relative compaction.

A representative of UES should be onsite to observe and test the subgrade, base and HMA sections.

### 7.7. Drainage Control

Proper surface drainage is critical to the future performance of the project. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the designed engineering properties. Proper site drainage should be always maintained. All site drainage, with the exception of any required to disposed of onsite by stormwater regulations, should be collected and transferred to the street in non-erosive drainage devices.

The proposed structure should be provided with roof drainage. Discharge from downspouts, roof drains and scuppers should not be permitted on unprotected soils within five feet of the building perimeter. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. Drainage should not be allowed to flow uncontrolled over any descending slope. Planters which are located within a distance equal to the depth of a retaining wall should be sealed to prevent moisture adversely affecting the wall. Planters which are located within five feet of a foundation should be sealed to prevent moisture affecting the earth materials supporting the foundation.

## 8. DESIGN REVIEW AND CONSTRUCTION MONITORING

Geotechnical review of plans and specifications is of paramount importance in engineering practice. The poor performance of many structures has been attributed to inadequate geotechnical review of construction documents. Additionally, observation of excavations will be important to the performance of the proposed development. The following sections present our recommendations relative to the review of construction documents and the monitoring of construction activities.

### 8.1. Plans and Specifications

The design plans and specifications should be reviewed by UES prior to bidding and construction, as the geotechnical recommendations may need to be reevaluated in the light of the actual design configuration and loads. This review is necessary to evaluate whether the recommendations contained in this report and future reports have been properly incorporated into the project plans and specifications. Based on the work already performed, this office is best qualified to provide such review.

### 8.2. Construction Monitoring

Site preparation, removal of unsuitable soils, assessment of imported fill materials, fill placement, foundation installation, and other site grading operations should be observed and tested. The substrata exposed during the construction may differ from that encountered in the test excavations. Continuous observation by a representative of UES during construction allows for evaluation of the soil conditions as they are encountered and allows the opportunity to recommend appropriate revisions where necessary.

The project engineer should be notified prior to exposure of subgrades. It is critically important that the engineer be provided with an opportunity to observe all exposed subgrades prior to burial or covering.

## 9. LIMITATIONS

The recommendations and opinions expressed in this report are based on information obtained from our field exploration for the site. In the event that any of our recommendations conflict with recommendations provided by other design professionals, we should be contacted to aid in resolving the discrepancy.

Due to the limited nature of our field explorations, conditions not observed and described in this report may be present on the site. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation and laboratory testing can be performed upon request. It should be understood that conditions different from those anticipated in this report may be encountered during excavation operations, for example, the presence of unsuitable soil, and that additional effort may be required to mitigate them.

Site conditions, including groundwater elevation, can change with time as a result of natural processes or the activities of man at the subject site or at nearby sites. Changes to the applicable laws, regulations, codes, and standards of practice may occur as a result of government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which UES has no control.

UES's recommendations for this site are, to a high degree, dependent upon appropriate quality control of foundation construction. Accordingly, the recommendations are made contingent upon the opportunity for UES to observe foundation excavations for the proposed construction. If parties other than UES are engaged to provide such services, such parties must be notified that they will be required to assume complete responsibility as the geotechnical engineer of record and the engineering geologist of record for the geotechnical phase of the project by concurring with the recommendations in this report and/or by providing alternative recommendations.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. UES should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document.

This report has been prepared for the exclusive use by the client and its agents for specific application to the proposed design and construction of the project described herein. Any party other than the client who wishes to use this report for an adjacent or nearby project, shall notify UES of such intended use. Land use, site conditions, or other factors may change over time, and additional work may be required with the passage of time. Based on the intended use of this report and the nature of the project, UES may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements by the client or any other party will release UES from any liability resulting from the use of this report by any unauthorized party.

UES has endeavored to perform its evaluation using the degree of care and skill ordinarily exercised under similar circumstances by reputable geotechnical professionals with experience in this area in similar soil conditions. No other warranty, either expressed or implied, is made as to the conclusions and recommendations contained in this report.

## 10. SELECTED REFERENCES

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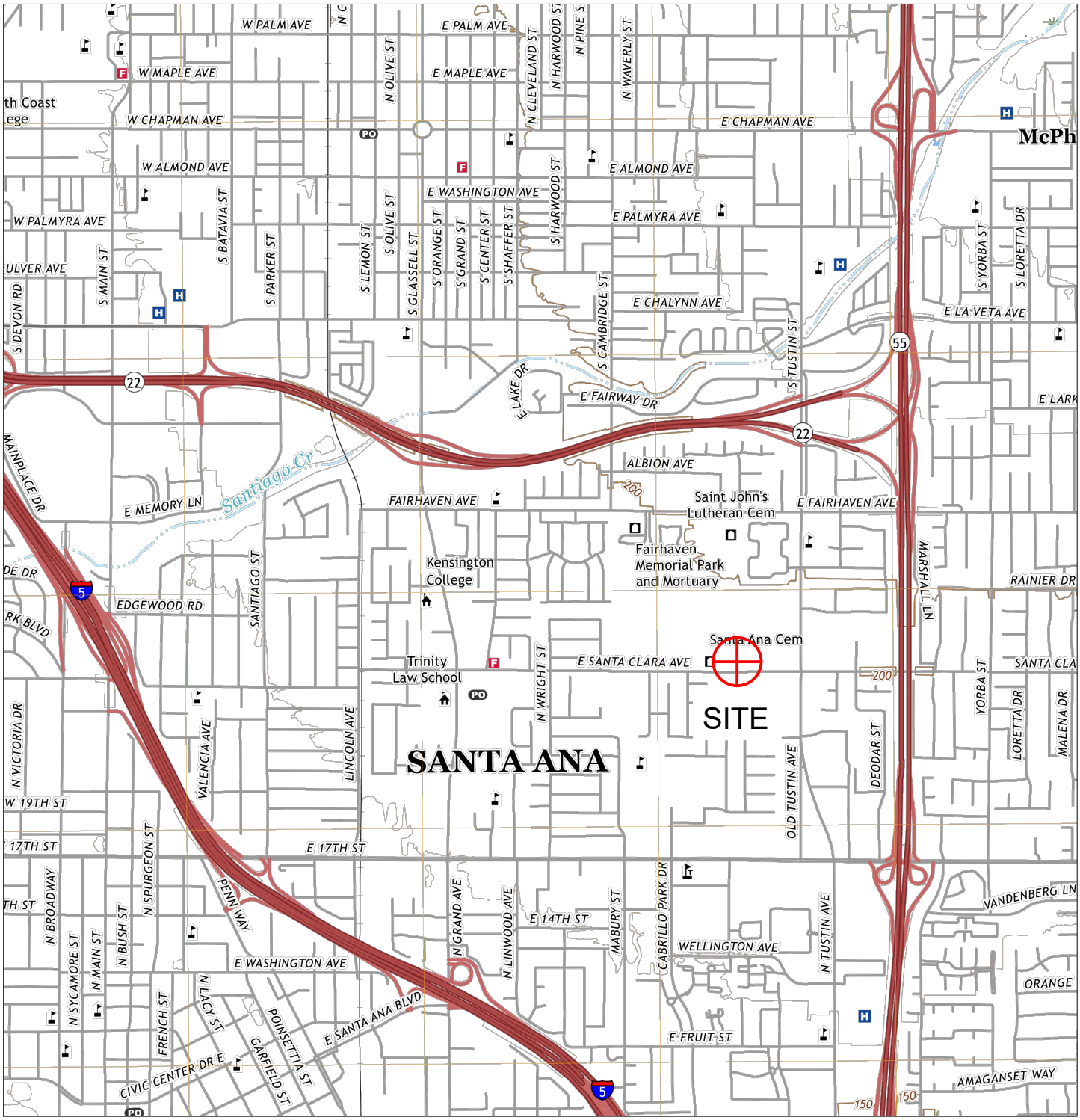
# FIGURES




# APPROXIMATE SITE LOCATION

SCALE IN FEET

0 1000' 2000'

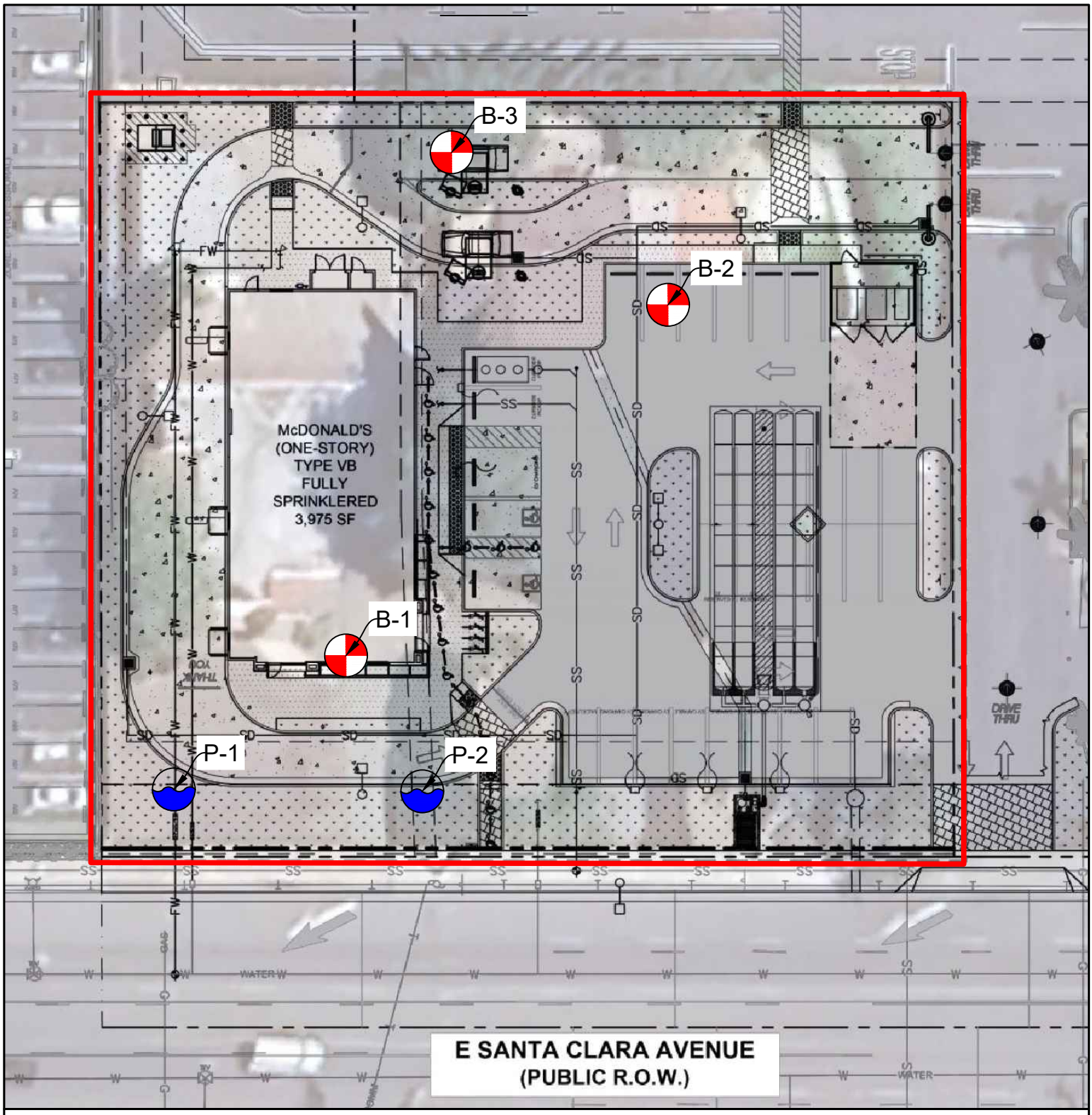
REFERENCE: USGS "Orange 7.5-Minute Quadrangle" (2018)

UNIVERSAL® ENGINEERING SCIENCES

## SITE VICINITY LOCATION MAP

McDonald's
2109 E Santa Clara Ave
Santa Ana, California

| PROJECT NO. | REPORT DATE | FIGURE 1 |
|---|---|---|
| 4230.2100035.0000 | October 2021 | |




N

20 0 20 40

(IN FEET)

PROJECT BOUNDARY

BORING LOCATION

PERCOLATION TEST LOCATION

UES

**Exploration Map**

**Santa Ana McDonalds**

**2109 Santa Clara Avenue**

**Orange County, California**

**Date:**
**08-21-2023**

**Job No:**
**4230.2100035.0000**

**Figure 2**

# APPENDIX A

# Field Exploration and Boring Logs

# Appendix A
# Field Exploration and Boring Logs

## General

The subsurface exploration program for the proposed project consisted of logging five 8-inch diameter exploratory borings conducted at the site on October 8, 2021. The borings were advanced to a maximum depth of 21.5 feet below the existing grade. The drilling operation was performed using a limited access track-mounted CME-75 hollow-stem-auger drill rig.

## Drilling and Sampling

The Boring Logs are presented in the following pages. The log also shows the boring number and drilling date. The borings were logged by a geologist using the Unified Soil Classification System. The boundaries between soil types shown on the logs are approximate because the transition between different soil layers may be gradual. Drive and bulk samples of representative earth materials were obtained from the borings.

Disturbed samples were obtained using a Standard Penetration Sampler (SPT). This sampler consists of a 2-inch O.D., 1.4-inch I.D. split barrel shaft that is advanced into the soil at the bottom of the drilled hole a total of 18 inches. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs. Soil samples obtained by the SPT were retained in plastic bags.

A California modified sampler was used to obtain drive samples of the soil encountered. This sampler consists of a 3-inch outside diameter (O.D.), 2.4-inch inside diameter (I.D.) split barrel shaft that was driven a total of 12-inches into the soil at the bottom of the boring by a safety hammer weighing 140 pounds at a drop height of approximately 30 inches. The soil was retained in brass rings for laboratory testing. Additional soil from each drive remaining in the cutting shoe was usually discarded after visually classifying the soil. The number of blows required to drive the sampler the final 12 inches is presented on the boring logs.

Upon completion of the borings, the boreholes were backfilled with soil from the cuttings.

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# BORING NUMBER B-1



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND trace gravel, light brown, dry to damp, medium dense, fine grained | GB | 100 | | | | | | | | |
| | | | MC | 100 | 11-16-16 (32) | 1.0 | 111 | 4 | 25 | 14 | 11 | |
| 5 | | some gravel | SPT | 100 | 5-5-6 (11) | | | | | | | 35 |
| | | (SC) CLAYEY SAND WITH GRAVEL, dark yellow brown, dry, medium dense, fine grained | MC | 100 | 11-12-15 (27) | 1.5 | 113 | 5 | | | | 44 |
| 10 | | | SPT | 100 | 9-6-7 (13) | | | | | | | |
| | | no recovery | MC | 0 | 50 | | | | | | | |
| 15 | | (SM) SILTY SAND WITH GRAVEL, light brown, dry, very dense. One big chunk of bedrock. | SPT | 100 | 5-20-30 (50) | | | | | | | 17 |
| | | no recovery | MC | 0 | 33-25-35 (60) | | | | | | | |
| 20 | | no recovery | SPT | 0 | 50 | | | | | | | |

Bottom of borehole at 21.5 feet.

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# BORING NUMBER B-2



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, dry to damp, stiff, fine grained | | | | | | | | | | |
| | | | GB | 100 | | | | | | | | |
| | | | MC | 100 | 7-10-12 (22) | 0.5 | 103 | 5 | | | | |
| 5 | | trace gravel, medium dense | | | | | | | | | | |
| | | | SPT | 100 | 5-4-5 (9) | | | | | | | |
| | | | MC | 100 | 7-17-19 (36) | 1.0 | 114 | 4 | | | | |
| 10 | | | | | | | | | | | | |
| | | | SPT | 100 | 5-8-8 (16) | | | | | | | |

Bottom of borehole at 11.5 feet.

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# BORING NUMBER B-3



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC-SM) SILTY, CLAYEY SAND, light brown, dry, loose, fine grained | | | | | | | | | | |
| | | trace gravel | GB | 100 | | | | | | | | |
| | | | MC | 100 | 3-4-5 (9) | 0.5 | | | | | | |
| 5 | | medium dense, some gravel | SPT | 100 | 20-15-20 (35) | | 117 | 3 | | | | |
| | | loose, some gravel | MC | 100 | 4-3-4 (7) | | | | | | | |
| 10 | | (SM) SILTY SAND WITH GRAVEL, dark yellow brown, damp, loose, fine grained | SPT | 100 | 9-11-13 (24) | 1.5 | 112 | 4 | | | | |
| | | loose, no gravel | MC | 100 | 3-4-4 (8) | | | | | | | 16 |
| 15 | | (SP-SM) POORLY GRADED SAND WITH SILT AND GRAVEL, light red with brown, damp, dense, fine to coarse grained sands | SPT | 100 | 17-18-34 (52) | | 115 | 2 | | | | |

Bottom of borehole at 16.5 feet.

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# BORING NUMBER P-1



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, fine grain | GB | 100 | | | | | | | | 49 |
| 5 | | | | | | | | | | | | |

Bottom of borehole at 5.0 feet.

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# BORING NUMBER P-2



**CLIENT** McDonald's USA
**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations
**PROJECT NUMBER** 4230.2100035.0000
**PROJECT LOCATION** Santa Ana, CA
**DATE STARTED** 10/8/21 **COMPLETED** 10/8/21
**GROUND ELEVATION** 192 ft MSL **HOLE SIZE** 8 inches
**DRILLING CONTRACTOR** Choice Drilling
**GROUND WATER LEVELS:**
**DRILLING METHOD** HSA
**AT TIME OF DRILLING** ---
**LOGGED BY** GD **CHECKED BY** NS
**AT END OF DRILLING** ---
**NOTES** Backfilled with native clippings. No groundwater encountered.
**AFTER DRILLING** ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | POCKET PEN. (tsf) | DRY UNIT WT. (pcf) | MOISTURE CONTENT (%) | ATTERBERG LIMITS: LIQUID LIMIT | ATTERBERG LIMITS: PLASTIC LIMIT | ATTERBERG LIMITS: PLASTICITY INDEX | FINES CONTENT (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | (SC) CLAYEY SAND, light brown, fine grain | GB | 100 | | | | | | | | 36 |
| 5 | | | | | | | | | | | | |

Bottom of borehole at 5.0 feet.

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# APPENDIX B
# Laboratory Testing

# Appendix B
# Laboratory Testing

## ASTM D 2488 - Classification

Soils were visually and texturally classified in accordance with the Unified Soil Classification System (USCS) in general accordance with ASTM D 2488. Soil classifications are indicated on the logs of the exploratory borings in Appendix A.

## ASTM D 2937- In-Place Moisture and Density Tests

The moisture content and dry density of relatively undisturbed samples obtained from the exploratory borings were evaluated in general accordance with ASTM D 2937. The test results are presented on the logs of the exploratory borings in Appendix A.

## ASTM D 422 - Gradation Analysis

Gradation analysis tests were performed on selected representative soil samples in general accordance with ASTM D 422. These test results were utilized in evaluating the soil classifications in accordance with the USCS.

## ASTM D 1140 - Wash Sieve

The amount of fines passing the No. 200 sieve was evaluated by the wash sieve. The test procedure was in general accordance with ASTM D 1140. The results are presented in B- 1: ASTM D 1140 - Wash Sieve.

**B- 1: ASTM D 1140 - Wash Sieve**

| Boring No. | Depth (feet) | Percent Passing #200 |
|---|---|---|
| B-1 | 5.0 | 34.5 |
| B-1 | 7.5 | 43.7 |
| B-1 | 15.0 | 16.5 |
| B-3 | 10.0 | 15.5 |
| P-1 | 5.0 | 48.6 |
| P-2 | 5.0 | 36.1 |

## ASTM D 4318 - Atterberg Limit

Tests were performed on selected representative fine-grained soil samples to evaluate the liquid limit, plastic limit, and plasticity index in general accordance with ASTM D 4318. These test results were utilized to evaluate the soil classification in accordance with the Unified Soil Classification System (USCS). The test results and classifications are shown in B- 2: ASTM D 4318 - Atterberg Limit

**B- 2: ASTM D 4318 - Atterberg Limit**

| Boring No. | Depth (feet) | Atterberg Limits | | |
|---|---|---|---|---|
| | | Liquid Limit | Plastic Limit | Plasticity Index |
| B-1 | 2.5 | 25 | 14 | 11 |

**ASTM D 3080 - Direct Shear Tests**

A direct shear test was performed on relatively undisturbed sample in general accordance with ASTM D 3080 to evaluate the shear strength characteristics of the selected material. The results are shown on B- 3: ASTM D 3080 Direct Shear Test Results.

**B- 3: ASTM D 3080 Direct Shear Test Results**

| Boring No. | Depth (feet) | Remolded | Peak | | Ultimate | |
|---|---|---|---|---|---|---|
| | | | C (psf) | Phi (deg) | C (psf) | Phi (deg) |
| B-1 | 2.5 | YES | 140 | 30 | 150 | 29 |

**ASTM D 4829 – Expansion Index of Soils**

An expansion index (EI) test was performed on relatively undisturbed sample in general accordance with ASTM D 4829 to evaluate the expansion potential of the selected material. The results are shown on B- 4: ASTM D 4829 Expansion Index of Soils .

**B- 4: ASTM D 4829 Expansion Index of Soils**

| Boring No. | Depth (feet) | EI value | Potential Expansion |
|---|---|---|---|
| B-1 | 0-5 | 13 | Very Low |

**ASTM D2435 - Consolidation Test**

A Consolidation tests was performed on a selected driven soil sample in general accordance with the latest version of ASTM D2435. The sample was inundated during testing to represent adverse field conditions. The percent consolidation for each load cycle was recorded as a ratio of the amount of vertical compression to the original height of the sample.

**Soil Corrosivity**

Soil pH and resistivity tests were performed by **Project X** on a representative soil sample in general accordance with the latest version of ASTM D4972 and ASTM G187, respectively.

The chloride content of the selected sample was evaluated in general accordance with the latest version of ASTM D4327.

The sulfate content of the selected samples was evaluated in general accordance with the latest version of ASTM D4327. The test results are presented on B- 5: Corrosivity Test Results.

**B- 5: Corrosivity Test Results**

| | | ASTM D 4327 | ASTM D 4327 | ASTM G 187 | ASTM D4972 |
|---|---|---|---|---|---|
| Boring No. | Depth (ft) | Water Soluble Sulfate (ppm) | Water Soluble Chloride (ppm) | Minimum Resistivity (ohm-cm) | pH |
| B-3 | <5 | 28.6 | 5.9 | 34,840 | 8.9 |

**ASTM D 2844 – Resistance R-Value and Expansion Pressure of Compacted Soils**

The resistance value, or R-value, for site soils was evaluated in general accordance with California Test (CT) 301. The sample was prepared and evaluated for exudation pressure and expansion pressure. The equilibrium R-value is reported as the lesser or more conservative of the two calculated results.

**B- 6: R-Value Test Results**

| Boring No. | Depth (feet) | R-Value |
|---|---|---|
| B-1 | 0-5 | 17 |

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# SUMMARY OF LABORATORY RESULTS



**CLIENT** McDonald's USA **PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000 **PROJECT LOCATION** Santa Ana, CA

| Borehole | Depth | Liquid Limit | Plastic Limit | Plasticity Index | Maximum Size (mm) | %<#200 Sieve | Class-ification | Water Content (%) | Dry Density (pcf) | Satur-ation (%) | Void Ratio |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B-1 | 2.5 | 25 | 14 | 11 | | | SC | 4.4 | 111.1 | | |
| B-1 | 5.0 | | | | 12.5 | 34.5 | SC | | | | |
| B-1 | 7.5 | | | | 12.5 | 43.7 | SC | 5.0 | 113.2 | | |
| B-1 | 15.0 | | | | 25 | 16.5 | SM | | | | |
| B-2 | 2.5 | | | | | | | 5.0 | 102.7 | | |
| B-2 | 7.5 | | | | | | | 4.0 | 113.5 | | |
| B-3 | 5.0 | | | | | | | 2.7 | 116.7 | | |
| B-3 | 10.0 | | | | | | | 3.8 | 112.2 | | |
| B-3 | 12.5 | | | | 9.5 | 15.5 | SM | | | | |
| B-3 | 15.0 | | | | | | | 1.9 | 115.3 | | |
| P-1 bulk | 0-5 | | | | 25 | 48.6 | SC | | | | |
| P-2 bulk | 0-5 | | | | 25 | 36.1 | SC | | | | |

# GRAIN SIZE DISTRIBUTION

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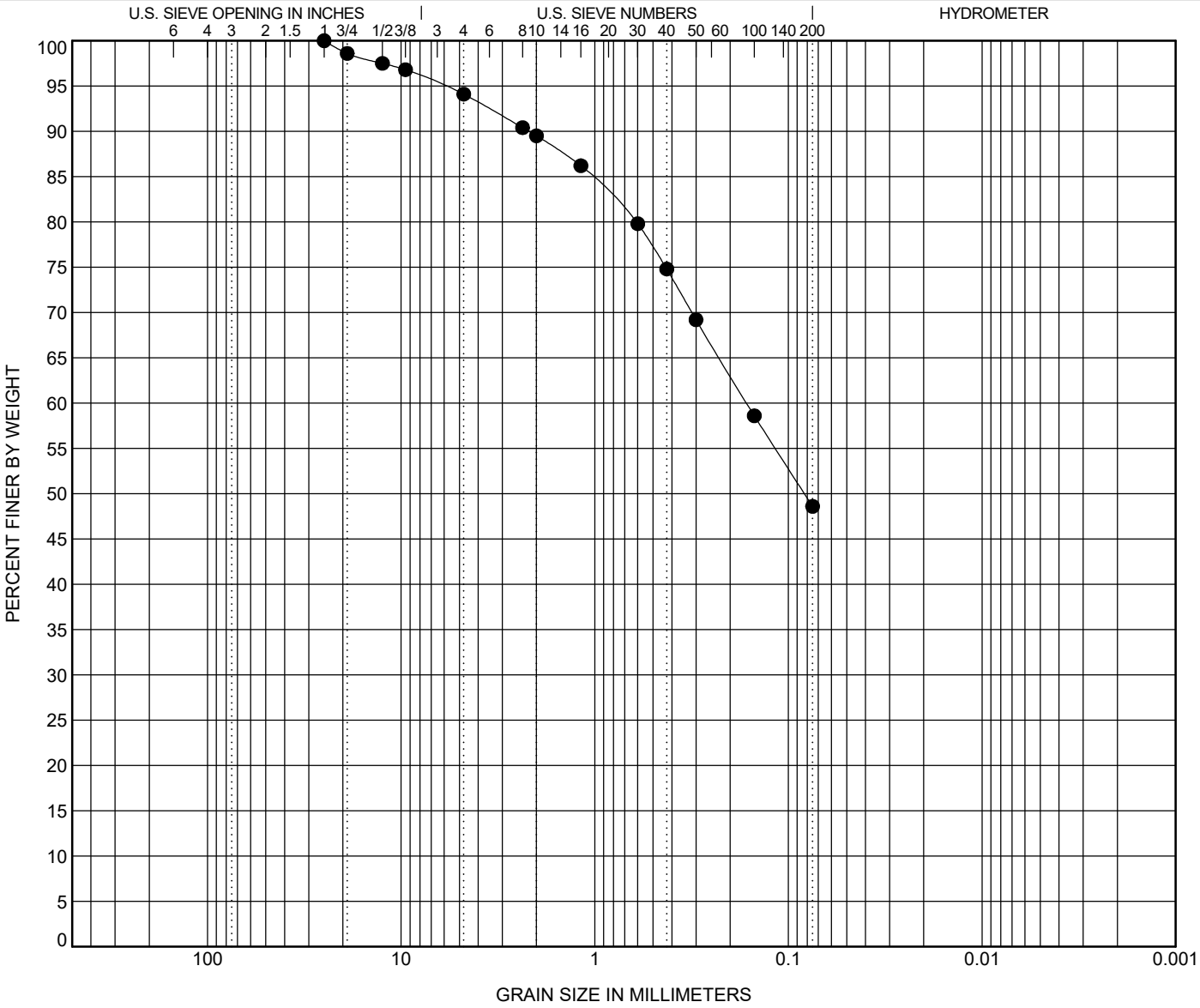
**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | BOREHOLE | DEPTH | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | **P-1** | **5.0** | **(SC) CLAYEY SAND *trace gravel** | | | | | |

| | BOREHOLE | DEPTH | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | **P-1** | **5.0** | **25** | **0.164** | | | **5.9** | **45.5** | **48.6** | |

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# GRAIN SIZE DISTRIBUTION

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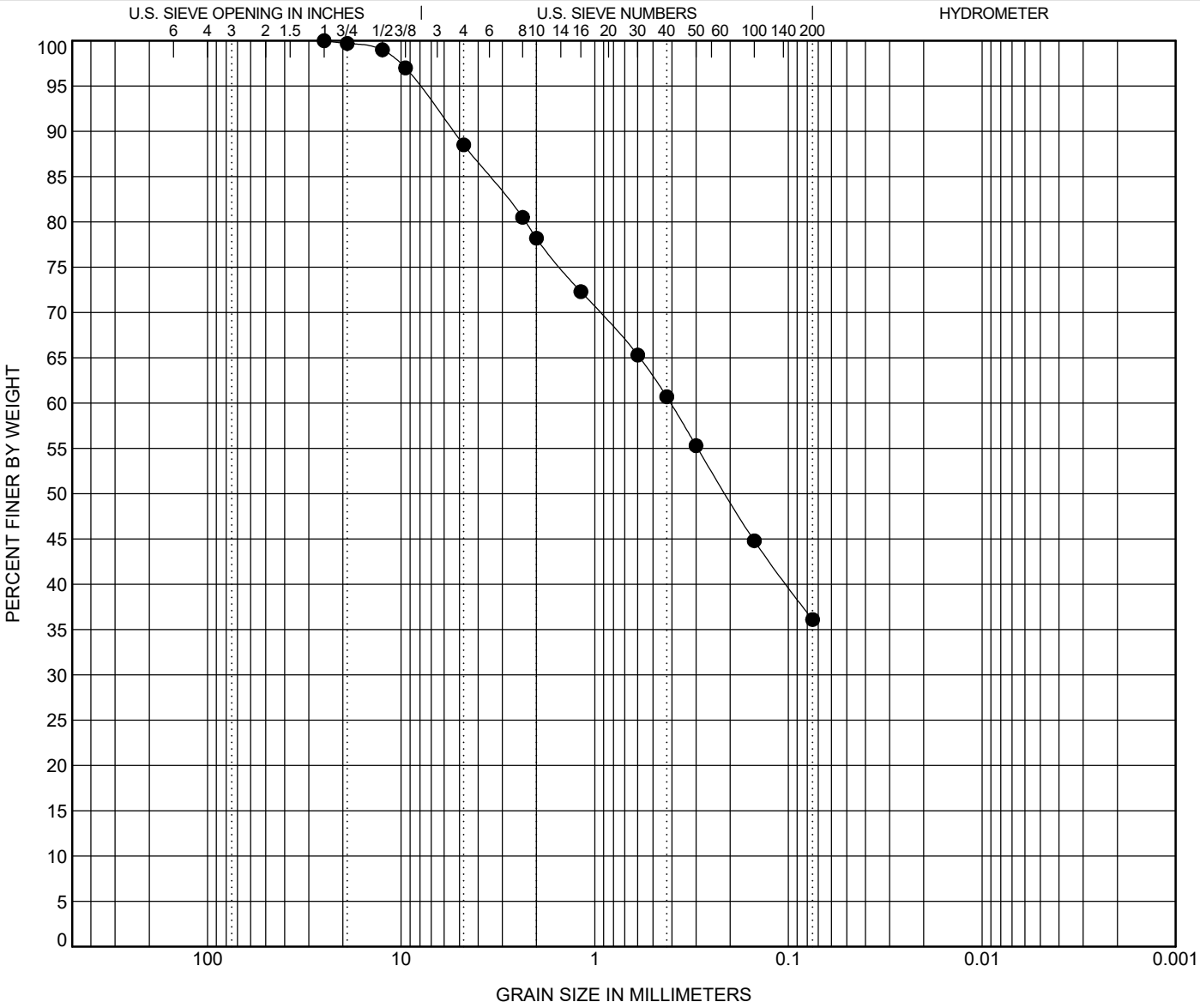
**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | BOREHOLE | DEPTH | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | **P-2** | **5.0** | **(SC) CLAYEY SAND *trace gravel** | | | | | |

| | BOREHOLE | DEPTH | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | **P-2** | **5.0** | **25** | **0.406** | | | **11.5** | **52.4** | **36.1** | |

GRAIN SIZE - GINT STD US LAB.GDT - 11/2/21 13:04 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS LOGS

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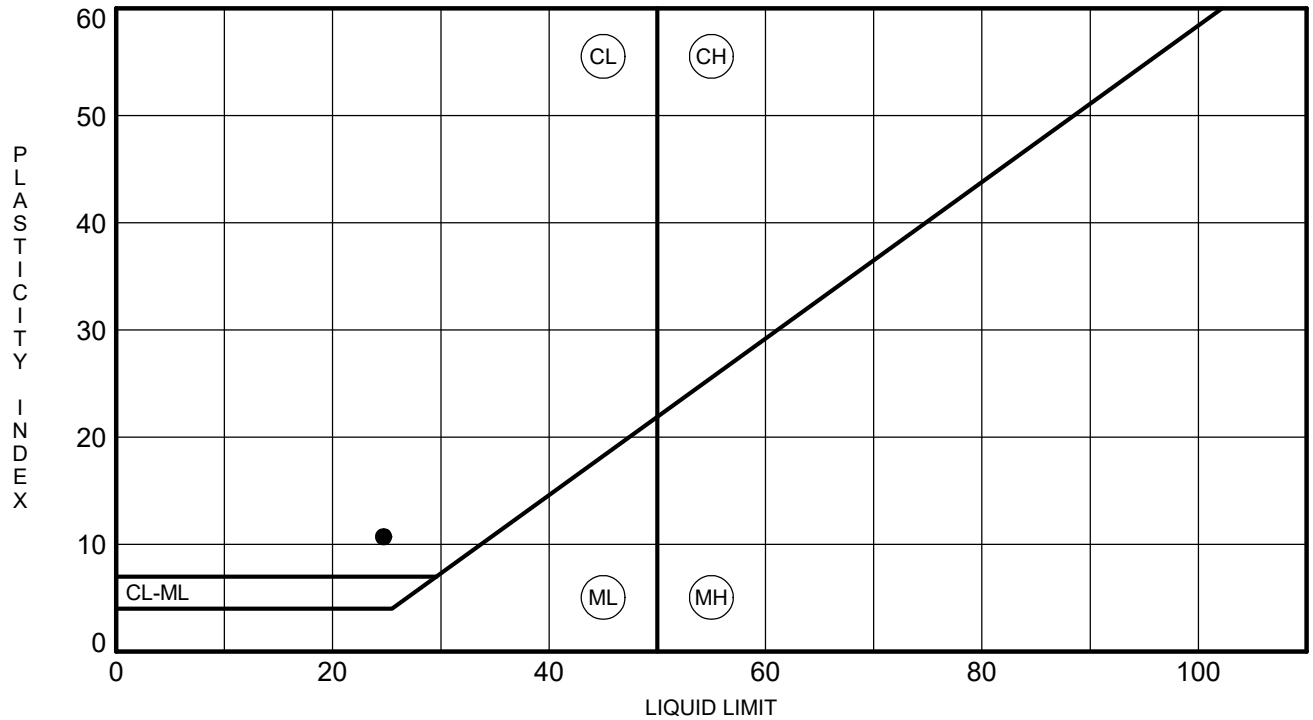
# ATTERBERG LIMITS' RESULTS

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

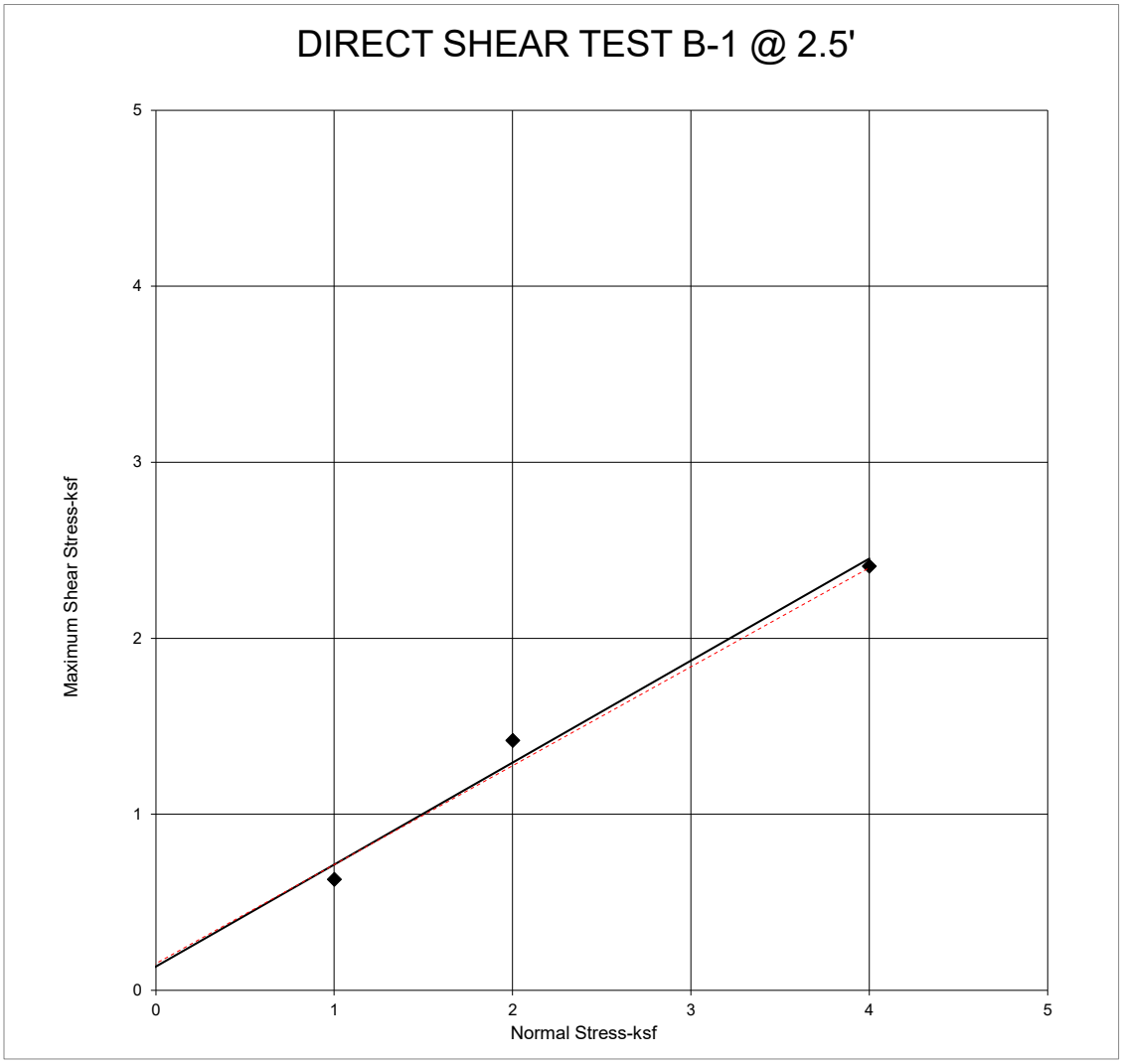
**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | LL | PL | PI | Fines | Classification |
|---|---|---|---|---|---|---|---|
| ● | **B-1** | **2.5** | **25** | **14** | **11** | | **(SC) CLAYEY SAND trace gravel** |

ATTERBERG LIMITS - GINT STD US LAB.GDT - 10/28/21 10:50 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONA




| Sample No. | Sample Depth (ft) | Normal Stress (ksf) | Maximum Shear Stress (ksf) | Wet Density (pcf) | Moisture Content (%) | Dry Density (pcf) | Final Moisture Content (%) | |
|---|---|---|---|---|---|---|---|---|
| B-1 | **2.5** | 1.0 | 0.63 | 116.0 | 4.4 | 111.1 | 25.2 | |
| B-1 | **2.5** | 2.0 | 1.42 | 116.0 | 4.4 | 111.1 | 25.0 | |
| B-1 | **2.5** | 4.0 | 2.41 | 116.0 | 4.4 | 111.1 | 24.7 | |

**Sample Type:** Remolded **Test Condition:** Saturated Sample Description: Light Brown Clayey Sand (SC)

**Peak Test Results**

| | |
|---|---|
| **Cohesion (psf):** | 140 |
| **Friction Angle (degrees):** | 30 |
| **Shear Rate (in/min)** | 0.0025 |

**Residual Test Results**

| | |
|---|---|
| **Cohesion (psf):** | 150 |
| **Friction Angle (degrees):** | 29 |
| **Shear Rate (in/min)** | 0.0025 |

**McDonald's - Santa Ana**

**Project No.**

**4230.2100035.0000**

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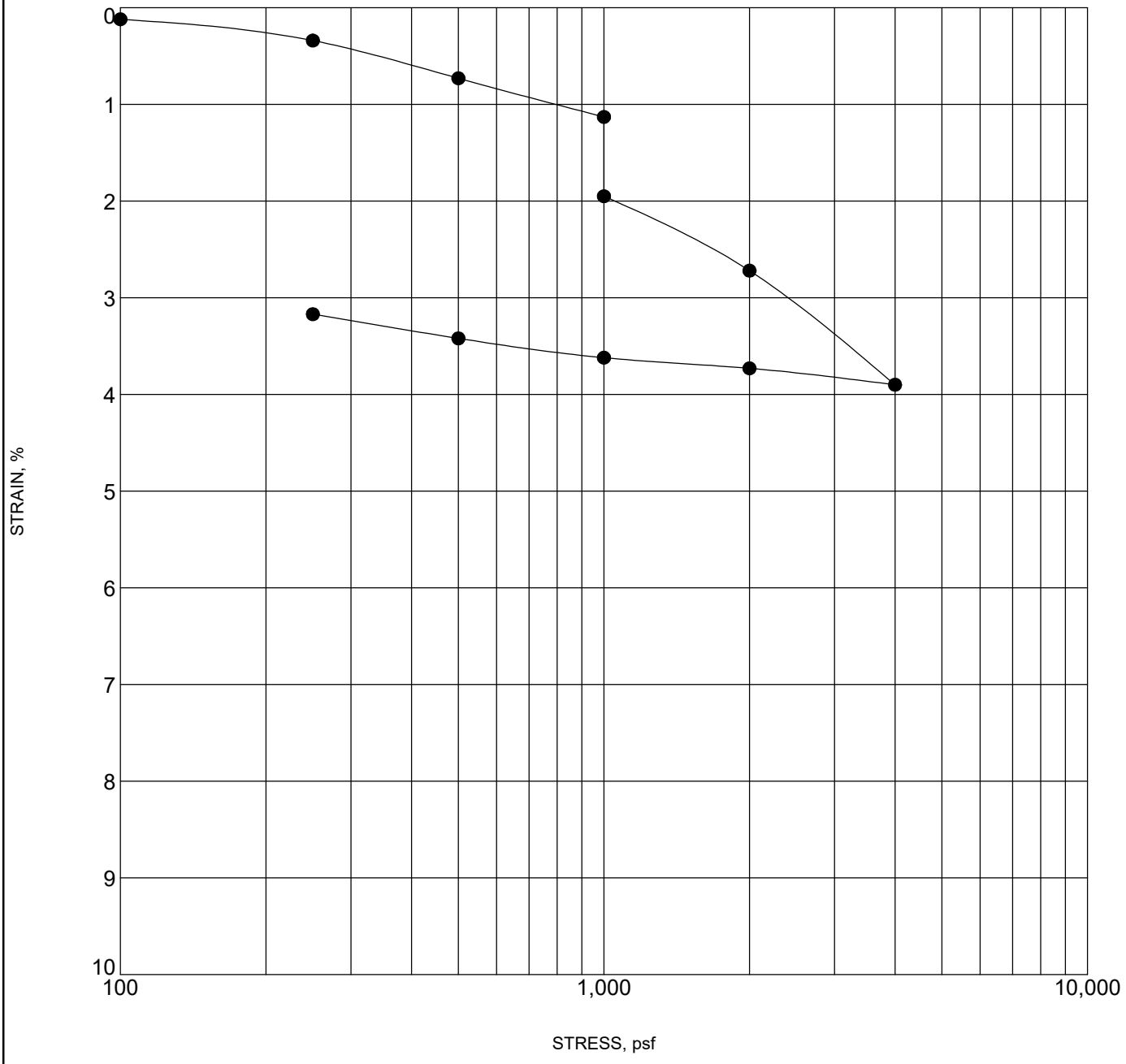
# CONSOLIDATION TEST

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | Classification | $\gamma_d$ | MC% |
|---|---|---|---|---|---|
| ● | **B-3** | **5.0** | **(SC-SM) SILTY, CLAYEY SAND with gravel** | **113.3** | **2.7** |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

CONSOL STRAIN - GINT STD US LAB.GDT - 10/28/21 10:21 - \\UESNOVA.UESORL.COM\SOCAL\PROJECTS\GEOTECHNICAL\2021\4230.2100035.0000 MCDONALDS SANTA ANA SUBSURFACE INVESTIGATIONS\APPENDIX A - BORING LOGS\SANTA ANA MCDONALDS

UNIVERSAL ENGINEERING SCIENCES

Universal Engineering Sciences
16 Technology Dr., Ste 139
Irvine, CA 92618
Telephone: 949-989-6940

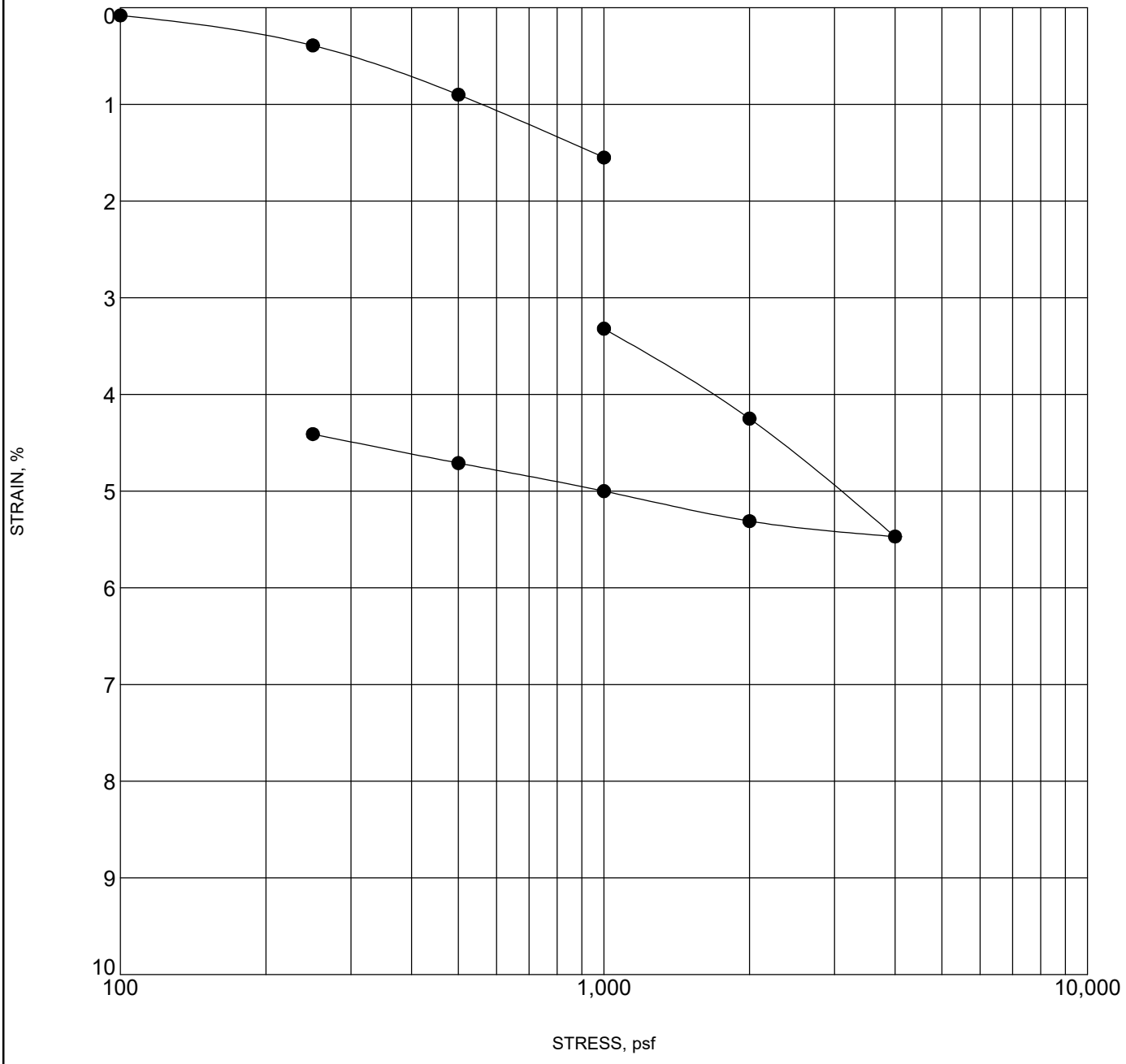
# CONSOLIDATION TEST

**CLIENT** McDonald's USA

**PROJECT NAME** McDonalds Santa Ana Subsurface Investigations

**PROJECT NUMBER** 4230.2100035.0000

**PROJECT LOCATION** Santa Ana, CA




| | BOREHOLE | DEPTH | Classification | $\gamma_d$ | MC% |
|---|---|---|---|---|---|
| ● | B-3 | 15.0 | (SP-SM) POORLY GRADED SAND WITH SILT and gravel | 113.5 | 1.9 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

## Soil Analysis Lab Results

Client: Universal Engineering
Job Name: Santa Ana - McDonald's
Client Job Number: 4230.2100035.0000
Project X Job Number: S211018C
October 19, 2021

| | Method | ASTM D4327 | | ASTM D4327 | | ASTM G187 | | ASTM D4972 |
|---|---|---|---|---|---|---|---|---|
| **Bore# / Description** | **Depth** | **Sulfates** $SO_4^{2-}$ | | **Chlorides** $Cl^-$ | | **Resistivity** As Rec'd \| Minimum | | **pH** |
| | (ft) | (mg/kg) | (wt%) | (mg/kg) | (wt%) | (Ohm-cm) | (Ohm-cm) | |
| B-3 Bulk | 0-5 | 28.6 | 0.0029 | 5.9 | 0.0006 | 34,840 | 6,030 | 8.9 |

Cations and Anions, except Sulfide and Bicarbonate, tested with Ion Chromatography
mg/kg = milligrams per kilogram (parts per million) of dry soil weight
ND = 0 = Not Detected | NT = Not Tested | Unk = Unknown
Chemical Analysis performed on 1:3 Soil-To-Water extract
PPM = mg/kg (soil) = mg/L (Liquid)

# APPENDIX C

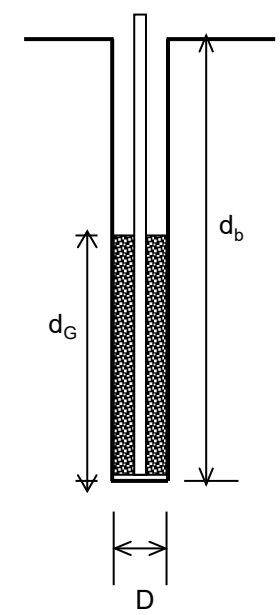
# Infiltration Test Result

## Appendix C

Percolation testing was performed on October 9, 2021 in conformance with Porchet Method (Inverse Borehole Method). Our field data and associated calculations are attached to this Appendix D for reference.

## PERCOLATION TEST DATA

**Project No.:** 4230.2100035.0000
**Project Name:** McDonalds Santa Ana Subsurface Investigations
**Test Date:** October 9, 2021
**Test Boring No.:** **P-1**
**Diameter of Boring (D):** 0.67 feet
**Depth of Boring ($d_b$):** 5.0 feet




**Sandy Soil Criteria Test**

| Time of Testing | | | Water Level Measurements | | | |
|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial depth to water $d_1$ (inch) | Greater than or Equal to 6"? (Yes/No) |
| 7:19 AM | 7:29 AM | 10.00 | 1.79 | 3.02 | 14.76 | Yes |
| 7:47 AM | 7:57 AM | 10.00 | 1.02 | 2.72 | 20.40 | Yes |

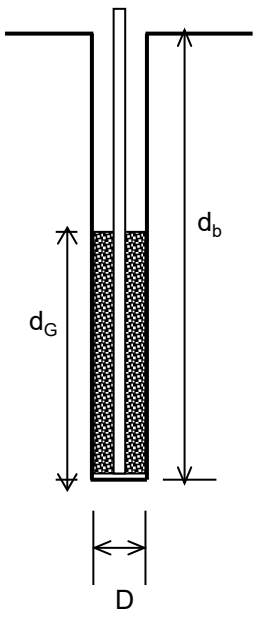
| Time of Testing | | | Water Level Measurements | | Water Level Calculations | | | Infiltration Rate Calculations | |
|---|---|---|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial height of water column $d_i$ (feet) | Final height of water column $d_f$ (feet) | Drop of water column $\Delta d = d_i - d_f$ (inch) | Tested Infiltration Rate *K (observed)* (inch/hr) | Infiltration Rate w/ Factor of Safety of 2 *K (design)* (inch/hr) |
| **Percolation Test** | | | | | | | | | |
| 8:14 AM | 8:44 AM | 30.00 | 1.46 | 1.93 | 3.54 | 3.07 | 5.64 | 0.54 | 0.27 |
| 8:45 AM | 9:15 AM | 30.00 | 1.45 | 1.91 | 3.55 | 3.09 | 5.52 | 0.53 | 0.26 |
| 9:16 AM | 9:46 AM | 30.00 | 1.52 | 2.02 | 3.48 | 2.98 | 6.00 | 0.59 | 0.29 |
| 9:47 AM | 10:17 AM | 30.00 | 1.56 | 1.95 | 3.44 | 3.05 | 4.68 | 0.46 | 0.23 |
| 10:18 AM | 10:48 AM | 30.00 | 1.55 | 1.92 | 3.45 | 3.08 | 4.44 | 0.43 | 0.22 |
| 10:49 AM | 11:19 AM | 30.00 | 1.52 | 1.92 | 3.48 | 3.08 | 4.80 | 0.46 | 0.23 |
| 11:20 AM | 11:50 AM | 30.00 | 1.50 | 1.90 | 3.50 | 3.10 | 4.80 | 0.46 | 0.23 |
| 11:51 AM | 12:21 PM | 30.00 | 1.50 | 1.89 | 3.50 | 3.11 | 4.68 | 0.45 | 0.22 |
| 12:22 PM | 12:52 PM | 30.00 | 1.50 | 1.89 | 3.50 | 3.11 | 4.68 | 0.45 | 0.22 |
| 12:53 PM | 1:23 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |
| 1:23 PM | 1:53 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |
| 1:54 PM | 2:24 PM | 30.00 | 1.50 | 1.88 | 3.50 | 3.12 | 4.56 | 0.44 | 0.22 |

***Infiltration Rate: 0.22 (inch/hr)**

Reference: County of Orange Technical Guidance Document (TGD), dated December 20, 2013
*Based on the last dropped obtained in the final 30 minutes

## PERCOLATION TEST DATA

**Project No.:** 4230.2100035.0000
**Project Name:** McDonalds Santa Ana Subsurface Investigations
**Test Date:** October 9, 2021
**Test Boring No.:** **P-2**
**Diameter of Boring (D):** 0.67 feet
**Depth of Boring ($d_b$):** 5.0 feet




**Sandy Soil Criteria Test**

| Time of Testing | | | Water Level Measurements | | | |
|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial depth to water $d_1$ (inches) | Greater than or Equal to 6"? (Yes/No) |
| 7:22 AM | 7:32 AM | 10.00 | 1.07 | 1.32 | 3.00 | Yes |
| | | 0.00 | | | 0.00 | Yes |

| Time of Testing | | | Water Level Measurements | | Water Level Calculations | | | Infiltration Rate Calculations | |
|---|---|---|---|---|---|---|---|---|---|
| Start Time $T_i$ | Stop Time $T_f$ | Time Interval $\Delta T$ (min) | Initial depth to water $d_1$ (feet) | Final depth to water $d_2$ (feet) | Initial height of water column $d_i$ (feet) | Final height of water column $d_f$ (feet) | Drop of water column $\Delta d = d_i - d_f$ (inches) | Tested Infiltration Rate *K (observed)* (inch/hr) | Infiltration Rate w/ Factor of Safety of 2 *K (design)* (inch/hr) |
| **Percolation Test** | | | | | | | | | |
| 7:22 AM | 7:52 AM | 30.00 | 1.07 | 1.42 | 3.93 | 3.58 | 4.20 | 0.36 | 0.12 |
| 7:53 AM | 8:32 AM | 39.00 | 1.06 | 1.42 | 3.94 | 3.58 | 4.32 | 0.28 | 0.14 |
| 8:28 AM | 8:58 AM | 30.00 | 1.04 | 1.45 | 3.96 | 3.55 | 4.92 | 0.42 | 0.21 |
| 8:59 AM | 9:29 AM | 30.00 | 1.09 | 1.43 | 3.91 | 3.57 | 4.08 | 0.35 | 0.17 |
| 9:30 AM | 10:00 AM | 30.00 | 1.12 | 1.42 | 3.88 | 3.58 | 3.60 | 0.31 | 0.15 |
| 10:02 AM | 10:32 AM | 30.00 | 1.10 | 1.47 | 3.90 | 3.53 | 4.44 | 0.38 | 0.19 |
| 10:33 AM | 11:33 AM | 60.00 | 1.09 | 1.47 | 3.91 | 3.53 | 4.56 | 0.20 | 0.10 |
| 11:04 AM | 11:34 AM | 30.00 | 1.09 | 1.47 | 3.91 | 3.53 | 4.56 | 0.39 | 0.20 |
| 11:36 AM | 12:00 PM | 24.00 | 1.07 | 1.42 | 3.93 | 3.58 | 4.20 | 0.45 | 0.22 |
| 12:08 PM | 12:38 PM | 30.00 | 1.09 | 1.46 | 3.91 | 3.54 | 4.44 | 0.38 | 0.19 |
| 12:39 PM | 1:09 PM | 30.00 | 1.11 | 1.47 | 3.89 | 3.53 | 4.32 | 0.37 | 0.19 |
| 1:10 PM | 1:40 PM | 30.00 | 1.10 | 1.46 | 3.90 | 3.54 | 4.32 | 0.37 | 0.19 |

***Infiltration Rate: 0.18 (inch/hr)**

Reference: County of Orange Technical Guidance Document (TGD), dated December 20, 2013
*Based on the last dropped obtained in the final 30 minutes

# Attachment G
# Hydromodification

**The proposed impervious area for the project is increased from 46.7% to 75.7%. Due to the increase and the ratio of the post volume and the pre volume being 1.44, additional storage is required for post-conditions. The proposed underground storage area will account for the attenuation for the 100-year, as well as the additional requirement for the 2-year, 24-hour storm event so the volume or rate in the post-conditions match the existing conditions**

**Worksheet H: Factor of Safety and Design Infiltration Rate and Worksheet**

| Factor Category | | Factor Description | Assigned Weight (w) | Factor Value (v) | Product (p) p = w x v |
|---|---|---|---|---|---|
| A | Suitability Assessment | Soil assessment methods | 0.25 | 1 | 0.25 |
| | | Predominant soil texture | 0.25 | 3 | 0.75 |
| | | Site soil variability | 0.25 | 1 | 0.25 |
| | | Depth to groundwater / impervious layer | 0.25 | 1 | 0.25 |
| | | Suitability Assessment Safety Factor, $S_A = \Sigma p$ | | | 1.5 |
| B | Design | Tributary area size | 0.25 | 1 | 0.25 |
| | | Level of pretreatment/ expected sediment loads | 0.25 | 1 | 0.25 |
| | | Redundancy | 0.25 | 3 | 0.75 |
| | | Compaction during construction | 0.25 | 1 | 0.25 |
| | | Design Safety Factor, $S_B = \Sigma p$ | | | 1.5 |
| Combined Safety Factor, $S_{Total} = S_A \times S_B$ | | | | | 2.25 |
| Observed Infiltration Rate, inch/hr, $K_{observed}$ (corrected for test-specific bias) | | | | | 0.20 |
| Design Infiltration Rate, in/hr, $K_{DESIGN} = K_{Observed} / S_{Total}$ | | | | | 0.08 |

**Supporting Data**

Briefly describe infiltration test and provide reference to test forms:

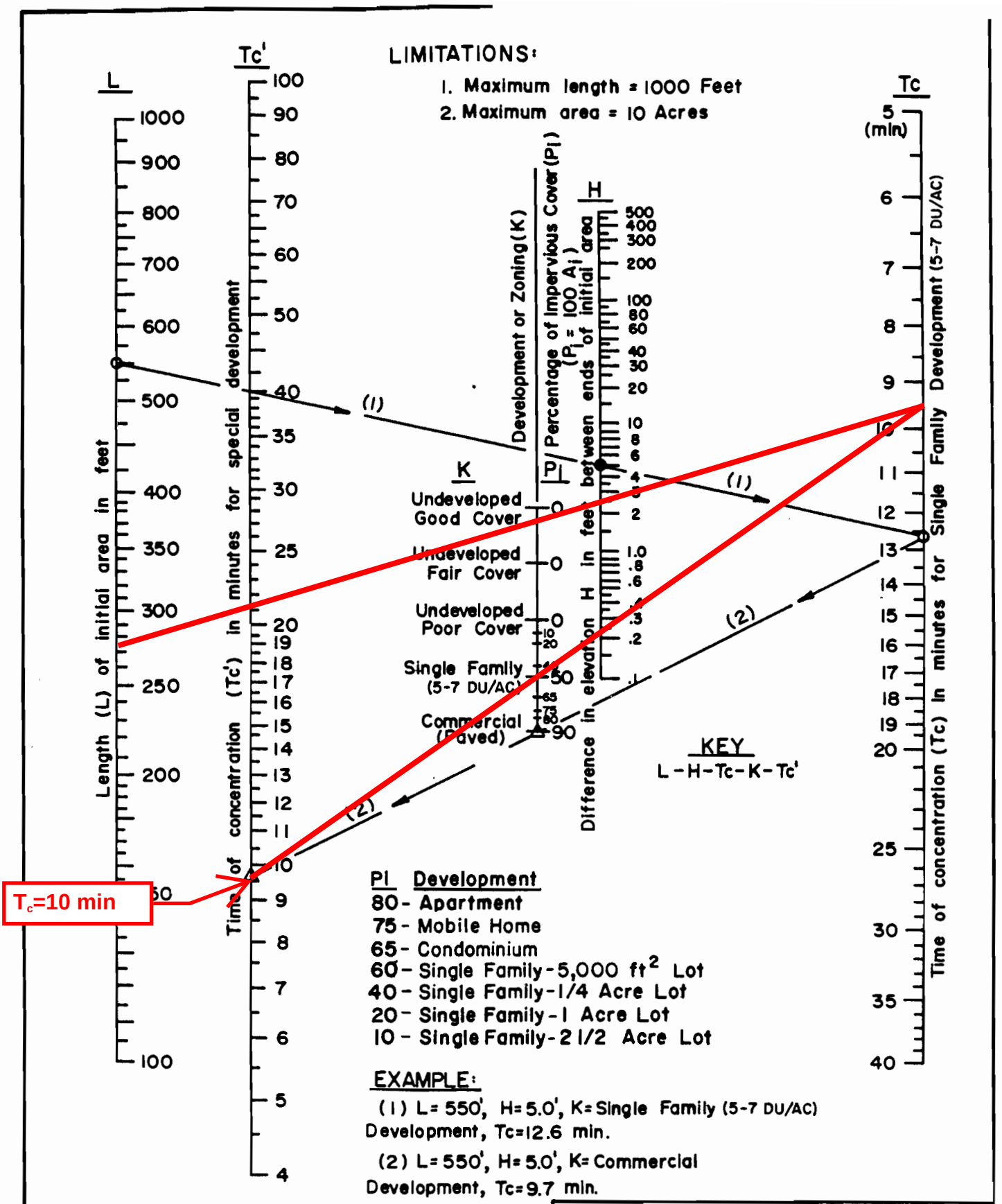
Infiltration rates provided are based on the average of the two infiltration rates observed in the field at the location of the proposed underground infiltration system is between the two testing locations.

**Note:** The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.

## Worksheet D: Capture Efficiency Method for Flow-Based BMPs

| | | | | |
|---|---|---|---|---|
| ***Step 1: Determine the design capture storm depth used for calculating volume*** | | | | |
| 1 | Enter the time of concentration, $T_c$ (min) (See **Appendix IV.2**) | $T_c$= | 7.5 | |
| 2 | Using **Figure III.4**, determine the design intensity at which the estimated time of concentration ($T_c$) achieves 80% capture efficiency, $I_1$ | $I_1$= | 0.24 | in/hr |
| 3 | Enter the effect depth of provided HSCs upstream, $d_{HSC}$ (inches) (**Worksheet A**) | $d_{HSC}$= | 0 | inches |
| 4 | Enter capture efficiency corresponding to $d_{HSC}$, $Y_2$ (**Worksheet A**) | $Y_2$= | 0 | % |
| 5 | Using **Figure III.4**, determine the design intensity at which the time of concentration ($T_c$) achieves the upstream capture efficiency($Y_2$), $I_2$ | $I_2$= | 0 | |
| 6 | Determine the design intensity that must be provided by BMP, $I_{design}= I_1-I_2$ | $I_{design}$= | 0.24 | |
| ***Step 2: Calculate the design flowrate*** | | | | |
| 1 | Enter Project area tributary to BMP (s), *A* (acres) | A= | 0.82 | acres |
| 2 | Enter Project Imperviousness, *imp* (unitless) | imp= | 0.76 | |
| 3 | Calculate runoff coefficient, $C= (0.75 \times imp) + 0.15$ | C= | 0.72 | |
| 4 | Calculate design flowrate, $Q_{design}= (C \times i_{design} \times A)$ | $Q_{design}$= | 0.14 | cfs |
| ***Supporting Calculations*** | | | | |
| Describe system: C x i x A = 0.84 x 0.24 x 0.82 = 0.14 cfs | | | | |
| Provide time of concentration assumptions: Time of concentration is based on time of concentration nomograph for initial subarea per Orange County Hydrology Manual | | | | |

Existing Conditions

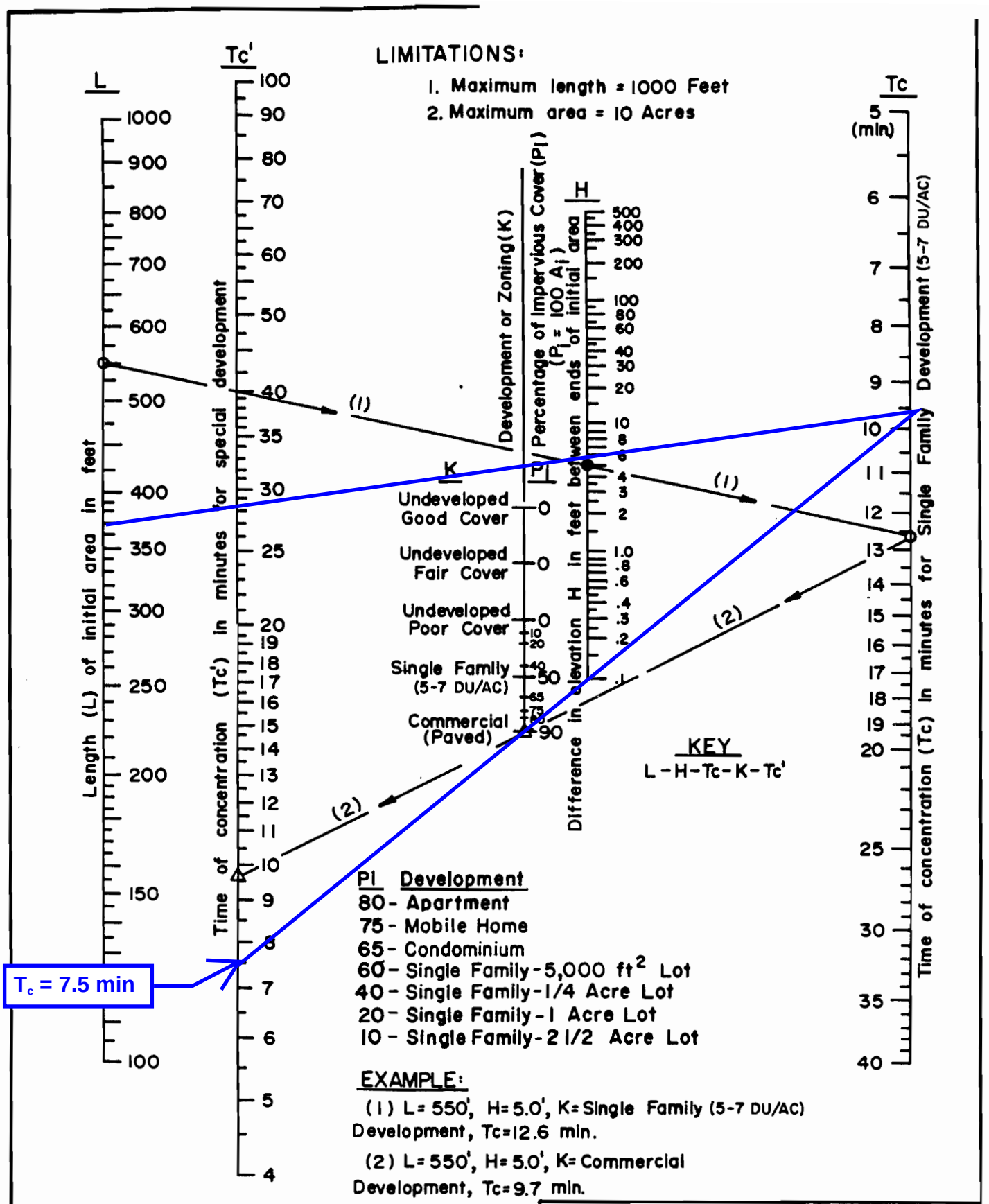



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

TIME OF CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA

Figure D-1

**Proposed Conditions**




**SAN BERNARDINO COUNTY**
HYDROLOGY MANUAL

TIME OF CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA

Figure D-1

# Attachment H
# LID Calculations

## Worksheet A: Hydrologic Source Control Calculation Form

| | | | | |
|---|---|---|---|---|
| Drainage area ID | | DMA #1 | | |
| Total drainage area | | 0.72 | acres | |
| Total drainage area Impervious Area ($IA_{total}$) | | 0.61 | acres | |
| HSC ID | HSC Type/ Description/ Reference BMP Fact Sheet | Effect of individual $HSC_i$ per criteria in **BMP Fact Sheets (XIV.1)** ($d_{HSCi}$)[1] | Impervious Area Tributary to $HSC_i$ ($IA_i$) | $d_i \times IA_i$ |
| | HSC criteria is not used for | 0 | 0.61 | 0 |
| | this project | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Box 1: | | $\sum d_i \times IA_i =$ | | 0 |
| Box 2: | | $IA_{total} =$ | | 0 |
| [Box 1]/[Box 2]: | | $d_{HSC\ total} =$ | | 0 |
| | | *Percent Capture Provided by HSCs (Table III.1)* | | 0 |

1 - For HSCs meeting criteria to be considered self-retaining, enter the DCV for the project.

# McDonalds - Santa Ana

## HCOC Calculations - Simple Method Runoff Coeficient

| Exisiting Conditions | | | |
|---|---|---|---|
| Description | Square Feet | Acres | |
| Total Distubed Area | 35530 S.F | 0.82 ac | |
| Impervious Area | 16602 S.F | 0.39 ac | 0.467267 |
| Pervious Area | 18928 S.F | 0.43 ac | 0.532733 |
| Impervious Fraction (imp) | 0.47 | | |
| C | 0.50 | | |
| 2-year Depth, inch | 2.05 in | | |
| 2-year Intensity (in/s) | 0.097 in/s | | |
| 2-year Volume | 3038 C.F. | | |
| 2-year Flow Rate Runoff, cfs | 0.040 cfs | | |

| Proposed Conditions | | | |
|---|---|---|---|
| Description | Square Feet | Acres | |
| Total Distubed Area | 35530 S.F | 0.82 ac | |
| Impervious Area | 26926 S.F | 0.62 ac | 0.757838 |
| Pervious Area | 8604 S.F | 0.20 ac | 0.242162 |
| Impervious Fraction (imp) | 0.76 | | |
| C | 0.72 | | |
| 2-year Depth, inch | 2.05 in | | |
| 2-year Intensity (in/s) | 0.097 in/s | | |
| 2-year Volume | 4360 C.F. | | |
| 2-year Flow Rate Runoff, cfs | 0.057 cfs | | |

| | |
|---|---|
| Differential in Volume, cu. Ft | 1323 C.F. |
| Differential in Runoff, cfs | 0.0172 |
| Post/Pre Volume | 1.44 |
| Post/Pre Runoff | 1.44 |

| McDonalds - Santa Ana | | | | | | |
|---|---|---|---|---|---|---|
| CA BREAKDOWN | | | | | | |
| | Impervious Area | | Pervious Area | | Total Area | |
| CA BREAKDOWN | SF | AC | SF | AC | SF | AC |
| CA 1 | 26371 S.F | 0.61 ac | 4956 S.F | 0.11 ac | 31327 S.F | 0.72 ac |
| CA 2 | 0 S.F | 0.00 ac | 3424 S.F | 0.08 ac | 3424 S.F | 0.08 ac |
| CA 3 | 779 S.F | 0.02 ac | 0 S.F | 0.00 ac | 779 S.F | 0.02 ac |
| Total | 27150 S.F | 0.62 ac | 8380 S.F | 0.19 ac | 35530 S.F | 0.82 ac |

| McDonalds - Santa Ana | |
|---|---|
| Simple Method | |
| DA #1 | |
| Impervious Area | 26926 S.F |
| Pervious Area | 8604 S.F |
| Total Drainage Area | 35530 S.F |

| BMP Sizing | |
|---|---|
| Design Capture Storm Depth | 0.77 in |
| Tributary Area | 0.82 ac |
| Imperviousness | 0.758 |
| Runoff Coeff. | 0.718 |
| Design Capture Volume (DCV) | 1638 C.F. |

## Worksheet B: Simple Design Capture Volume Sizing Method

| | | | | |
|---|---|---|---|---|
| ***Step 1: Determine the design capture storm depth used for calculating volume*** | | | | |
| 1 | Enter design capture storm depth from Figure III.1, *d* (inches) | d= | 0.77 | inches |
| 2 | Enter the effect of provided HSCs, $d_{HSC}$ (inches) (Worksheet A) | $d_{HSC}$= | 0 | inches |
| 3 | Calculate the remainder of the design capture storm depth, $d_{remainder}$ (inches) (Line 1 – Line 2) | $d_{remainder}$= | 0.77 | inches |
| ***Step 2: Calculate the DCV*** | | | | |
| 1 | Enter Project area tributary to BMP (s), *A* (acres) | A= | 0.82 | acres |
| 2 | Enter Project Imperviousness, *imp* (unitless) | imp= | 0.76 | |
| 3 | Calculate runoff coefficient, *C= (0.75 x imp) + 0.15* | C= | 0.72 | |
| 4 | Calculate runoff volume, $V_{design}$= $(C \times d_{remainder} \times A \times 43560 \times (1/12))$ | $V_{design}$= | 1638 | cu-ft |
| ***Step 3: Design BMPs to ensure full retention of the DCV*** | | | | |
| **Step 3a: Determine design infiltration rate** | | | | |
| 1 | Enter measured infiltration rate, $K_{observed}$[1] (in/hr) (**Appendix VII**) | $K_{observed}$= | 0.20 | In/hr |
| 2 | Enter combined safety factor from Worksheet H, $S_{total}$ (unitless) | $S_{total}$= | 2.25 | |
| 3 | Calculate design infiltration rate, $K_{design} = K_{observed} / S_{total}$ | $K_{design}$= | 0.09 | In/hr |
| **Step 3b: Determine minimum BMP footprint** | | | | |
| 4 | Enter drawdown time, *T* (max 48 hours) | T= | 48 | Hours |
| 5 | Calculate max retention depth that can be drawn down within the drawdown time (feet), $D_{max} = K_{design} \times T \times (1/12)$ | $D_{max}$= | 0.36 | feet |
| 6 | Calculate minimum area required for BMP (sq-ft), $A_{min} = V_{design} / d_{max}$ | $A_{min}$= | 4425 | sq-ft |

[1] $K_{observed}$ is the vertical infiltration measured in the field, before applying a factor of safety. If field testing measures a rate that is different than the vertical infiltration rate (for example, three-dimensional borehole percolation rate), then this rate must be adjusted by an acceptable method (for example, Porchet method) to yield the field estimate of vertical infiltration rate, $K_{observed}$. See Appendix VII.

*The underground infiltration system has been sized to meet the Design Capture Volume. Refer to R-Tank Sizing System Sizing information attached hereon for more information.
Volume Provided 1284 CF > 1225 CF required

**Footprint of infiltration system provided 779 SF > 713 SF required

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____________________________________________________________________
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*****************************************************************
************
            NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE
(Fm)
                      AND LOW LOSS FRACTION ESTIMATIONS

=================================================================
============
          (C) Copyright 1989-2011 Advanced Engineering Software
(aes)
              Ver. 18.0  Release Date: 05/01/2011  License ID
1499

                            Analysis prepared by:




*****************************************************************
************
 -----------------------------------------------------------------
-------------

  Problem Descriptions:
   McDonald's Santa Ana
   2 YR Existing Conditions


=================================================================
============
 *** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
     AND LOW LOSS FRACTION ESTIMATIONS FOR AMC I:

     TOTAL 24-HOUR DURATION RAINFALL DEPTH =     2.33 (inches)

     SOIL-COVER     AREA      PERCENT OF    SCS CURVE    LOSS
RATE
        TYPE      (Acres)   PERVIOUS AREA     NUMBER
Fp(in./hr.)    YIELD
          1          0.82        0.53       56.(AMC II)
           0.010       0.897

     TOTAL AREA (Acres) =      0.82

     AREA-AVERAGED LOSS RATE, F̄m (in./hr.) =  0.000

     AREA-AVERAGED LOW LOSS FRACTION, Ȳ = 0.103
```

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____________________________________________________________________
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*****************************************************************
************
                        SMALL AREA UNIT HYDROGRAPH MODEL

=================================================================
============
          (C) Copyright 1989-2011 Advanced Engineering Software
(aes)
              Ver. 18.0  Release Date: 05/01/2011  License ID
1499

                             Analysis prepared by:




*****************************************************************
************
 ----------------------------------------------------------------
-------------

  Problem Descriptions:
   McDonald's Santa Ana
   2 YR Existing Conditions

 ----------------------------------------------------------------
-------------


     RATIONAL METHOD CALIBRATION COEFFICIENT = 0.85
     TOTAL CATCHMENT AREA(ACRES) =    0.82
     SOIL-LOSS RATE, Fm,(INCH/HR) =  0.002
     LOW LOSS FRACTION = 0.115
     TIME OF CONCENTRATION(MIN.) = 10.63
     SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
     USER SPECIFIED RAINFALL VALUES ARE USED
     RETURN FREQUENCY(YEARS) =   2
        5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.16
       30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
        1-HOUR   POINT RAINFALL VALUE(INCHES) =  0.52
        3-HOUR   POINT RAINFALL VALUE(INCHES) =  0.95
        6-HOUR   POINT RAINFALL VALUE(INCHES) =  1.34
       24-HOUR   POINT RAINFALL VALUE(INCHES) =  2.33

 ----------------------------------------------------------------
-------------
```

```
     TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     0.13
     TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.03

*****************************************************************
************
   TIME     VOLUME       Q    0.        2.5       5.0       7.5
10.0
  (HOURS)    (AF)      (CFS)
 ---------------------------------------------------------------
-------------
   0.05      0.0000      0.00
Q         .         .         .         .
   0.23      0.0002      0.03
Q         .         .         .         .
   0.41      0.0006      0.03
Q         .         .         .         .
   0.59      0.0009      0.03
Q         .         .         .         .
   0.76      0.0013      0.03
Q         .         .         .         .
   0.94      0.0017      0.03
Q         .         .         .         .
   1.12      0.0021      0.03
Q         .         .         .         .
   1.30      0.0025      0.03
Q         .         .         .         .
   1.47      0.0029      0.03
Q         .         .         .         .
   1.65      0.0033      0.03
Q         .         .         .         .
   1.83      0.0037      0.03
Q         .         .         .         .
   2.00      0.0041      0.03
Q         .         .         .         .
   2.18      0.0045      0.03
Q         .         .         .         .
   2.36      0.0049      0.03
Q         .         .         .         .
   2.54      0.0053      0.03
Q         .         .         .         .
   2.71      0.0057      0.03
Q         .         .         .         .
   2.89      0.0062      0.03
Q         .         .         .         .
   3.07      0.0066      0.03
Q         .         .         .         .
   3.24      0.0070      0.03
Q         .         .         .         .
   3.42      0.0074      0.03
Q         .         .         .         .
   3.60      0.0079      0.03
Q         .         .         .         .
   3.78      0.0083      0.03
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 3.95 | 0.0088 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.13 | 0.0092 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.31 | 0.0097 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.48 | 0.0101 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.66 | 0.0106 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.84 | 0.0110 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.02 | 0.0115 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.19 | 0.0120 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.37 | 0.0125 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.55 | 0.0129 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.72 | 0.0134 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.90 | 0.0139 | 0.03 | | |
| Q | . | . | . | . | |
| | 6.08 | 0.0144 | 0.03 | | |
| Q | . | . | . | . | |
| | 6.26 | 0.0149 | 0.03 | | |
| Q | . | . | . | . | |
| | 6.43 | 0.0154 | 0.03 | | |
| Q | . | . | . | . | |
| | 6.61 | 0.0160 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.79 | 0.0165 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.96 | 0.0170 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.14 | 0.0175 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.32 | 0.0181 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.50 | 0.0186 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.67 | 0.0192 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.85 | 0.0197 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.03 | 0.0203 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.20 | 0.0209 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.38 | 0.0215 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.56 | 0.0221 | 0.04 | | |

| | | | | |
|---|---|---|---|---|
| Q | . | . | . | . |
| 8.74 | 0.0227 | 0.04 | | |
| Q | . | . | . | . |
| 8.91 | 0.0233 | 0.04 | | |
| Q | . | . | . | . |
| 9.09 | 0.0239 | 0.04 | | |
| Q | . | . | . | . |
| 9.27 | 0.0245 | 0.04 | | |
| Q | . | . | . | . |
| 9.44 | 0.0252 | 0.04 | | |
| Q | . | . | . | . |
| 9.62 | 0.0258 | 0.04 | | |
| Q | . | . | . | . |
| 9.80 | 0.0265 | 0.05 | | |
| Q | . | . | . | . |
| 9.98 | 0.0272 | 0.05 | | |
| Q | . | . | . | . |
| 10.15 | 0.0279 | 0.05 | | |
| Q | . | . | . | . |
| 10.33 | 0.0286 | 0.05 | | |
| Q | . | . | . | . |
| 10.51 | 0.0293 | 0.05 | | |
| Q | . | . | . | . |
| 10.68 | 0.0300 | 0.05 | | |
| Q | . | . | . | . |
| 10.86 | 0.0307 | 0.05 | | |
| Q | . | . | . | . |
| 11.04 | 0.0315 | 0.05 | | |
| Q | . | . | . | . |
| 11.22 | 0.0323 | 0.05 | | |
| Q | . | . | . | . |
| 11.39 | 0.0331 | 0.05 | | |
| Q | . | . | . | . |
| 11.57 | 0.0339 | 0.06 | | |
| Q | . | . | . | . |
| 11.75 | 0.0347 | 0.06 | | |
| Q | . | . | . | . |
| 11.93 | 0.0355 | 0.06 | | |
| Q | . | . | . | . |
| 12.10 | 0.0364 | 0.06 | | |
| Q | . | . | . | . |
| 12.28 | 0.0374 | 0.08 | | |
| Q | . | . | . | . |
| 12.46 | 0.0386 | 0.08 | | |
| Q | . | . | . | . |
| 12.63 | 0.0397 | 0.08 | | |
| Q | . | . | . | . |
| 12.81 | 0.0409 | 0.08 | | |
| Q | . | . | . | . |
| 12.99 | 0.0422 | 0.09 | | |
| Q | . | . | . | . |
| 13.17 | 0.0435 | 0.09 | | |
| Q | . | . | . | . |
| 13.34 | 0.0448 | 0.09 | | |

Q . . . .
13.52 0.0461 0.09
Q . . . .
13.70 0.0475 0.10
Q . . . .
13.87 0.0490 0.10
Q . . . .
14.05 0.0505 0.11
Q . . . .
14.23 0.0522 0.12
Q . . . .
14.41 0.0540 0.13
Q . . . .
14.58 0.0559 0.13
Q . . . .
14.76 0.0579 0.14
Q . . . .
14.94 0.0600 0.15
Q . . . .
15.11 0.0623 0.16
Q . . . .
15.29 0.0648 0.17
Q . . . .
15.47 0.0674 0.19
Q . . . .
15.65 0.0703 0.20
Q . . . .
15.82 0.0736
0.26 .Q . . . .
16.00 0.0780
0.34 .Q . . . .
16.18 0.0871 0.89 .
Q . . . .
16.35 0.0953 0.23
Q . . . .
16.53 0.0983 0.19
Q . . . .
16.71 0.1008 0.16
Q . . . .
16.89 0.1029 0.14
Q . . . .
17.06 0.1048 0.12
Q . . . .
17.24 0.1065 0.10
Q . . . .
17.42 0.1080 0.10
Q . . . .
17.59 0.1093 0.09
Q . . . .
17.77 0.1106 0.08
Q . . . .
17.95 0.1118 0.08
Q . . . .
18.13 0.1129 0.07

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| 18.30 | 0.1139 | 0.06 | | | |
| Q | . | . | . | . | |
| 18.48 | 0.1147 | 0.06 | | | |
| Q | . | . | . | . | |
| 18.66 | 0.1155 | 0.05 | | | |
| Q | . | . | . | . | |
| 18.83 | 0.1163 | 0.05 | | | |
| Q | . | . | . | . | |
| 19.01 | 0.1170 | 0.05 | | | |
| Q | . | . | . | . | |
| 19.19 | 0.1177 | 0.05 | | | |
| Q | . | . | . | . | |
| 19.37 | 0.1184 | 0.05 | | | |
| Q | . | . | . | . | |
| 19.54 | 0.1190 | 0.04 | | | |
| Q | . | . | . | . | |
| 19.72 | 0.1197 | 0.04 | | | |
| Q | . | . | . | . | |
| 19.90 | 0.1203 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.07 | 0.1209 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.25 | 0.1214 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.43 | 0.1220 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.61 | 0.1226 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.78 | 0.1231 | 0.04 | | | |
| Q | . | . | . | . | |
| 20.96 | 0.1236 | 0.04 | | | |
| Q | . | . | . | . | |
| 21.14 | 0.1241 | 0.03 | | | |
| Q | . | . | . | . | |
| 21.32 | 0.1246 | 0.03 | | | |
| Q | . | . | . | . | |
| 21.49 | 0.1251 | 0.03 | | | |
| Q | . | . | . | . | |
| 21.67 | 0.1256 | 0.03 | | | |
| Q | . | . | . | . | |
| 21.85 | 0.1261 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.02 | 0.1265 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.20 | 0.1270 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.38 | 0.1274 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.56 | 0.1279 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.73 | 0.1283 | 0.03 | | | |
| Q | . | . | . | . | |
| 22.91 | 0.1287 | 0.03 | | | |

```
Q          .         .         .         .
  23.09      0.1291      0.03
Q          .         .         .         .
  23.26      0.1295      0.03
Q          .         .         .         .
  23.44      0.1299      0.03
Q          .         .         .         .
  23.62      0.1303      0.03
Q          .         .         .         .
  23.80      0.1307      0.03
Q          .         .         .         .
  23.97      0.1311      0.03
Q          .         .         .         .
  24.15      0.1315      0.03
Q          .         .         .         .
  24.33      0.1317      0.00
Q          .         .         .         .
 ------------------------------------------------------------------
-------------
------------------------------------------------------------------
----------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW
RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)
```

| Percentile of Estimated Peak Flow Rate | Duration (minutes) |
|---|---|
| 0% | 1445.7 |
| 10% | 265.8 |
| 20% | 74.4 |
| 30% | 21.3 |
| 40% | 10.6 |
| 50% | 10.6 |
| 60% | 10.6 |
| 70% | 10.6 |
| 80% | 10.6 |
| 90% | 10.6 |

```
____________________________________________________________________
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*****************************************************************
************
            NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE
(Fm)
                      AND LOW LOSS FRACTION ESTIMATIONS

=================================================================
============
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1499

                            Analysis prepared by:




*****************************************************************
************
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-------------

  Problem Descriptions:
   McDonald's Santa Ana
   2 YR Proposed Conditions


=================================================================
============
 *** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
     AND LOW LOSS FRACTION ESTIMATIONS FOR AMC I:

     TOTAL 24-HOUR DURATION RAINFALL DEPTH =     2.33 (inches)

     SOIL-COVER     AREA      PERCENT OF    SCS CURVE    LOSS
RATE
        TYPE      (Acres)   PERVIOUS AREA     NUMBER
Fp(in./hr.)    YIELD
          1          0.82        0.24       56.(AMC II)
0.010       0.900

     TOTAL AREA (Acres) =      0.82

     AREA-AVERAGED LOSS RATE, F̄m (in./hr.) =  0.000

     AREA-AVERAGED LOW LOSS FRACTION, Ȳ = 0.100
```

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____________________________________________________________________
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*****************************************************************
************
                        SMALL AREA UNIT HYDROGRAPH MODEL

=================================================================
============
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              Ver. 18.0  Release Date: 05/01/2011  License ID
1499

                             Analysis prepared by:




*****************************************************************
************
 ----------------------------------------------------------------
-------------

  Problem Descriptions:
   McDonald's Santa Ana
   2 YR Proposed Conditions

 ----------------------------------------------------------------
-------------


     RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
     TOTAL CATCHMENT AREA(ACRES) =    0.82
     SOIL-LOSS RATE, Fm,(INCH/HR) =  0.001
     LOW LOSS FRACTION = 0.230
     TIME OF CONCENTRATION(MIN.) =  5.00
     SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
     USER SPECIFIED RAINFALL VALUES ARE USED
     RETURN FREQUENCY(YEARS) =   2
        5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.16
       30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.37
        1-HOUR   POINT RAINFALL VALUE(INCHES) =  0.52
        3-HOUR   POINT RAINFALL VALUE(INCHES) =  0.95
        6-HOUR   POINT RAINFALL VALUE(INCHES) =  1.34
       24-HOUR   POINT RAINFALL VALUE(INCHES) =  2.33

 ----------------------------------------------------------------
-------------
```

```
     TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     0.14
     TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.02

*****************************************************************
************
   TIME     VOLUME       Q    0.        2.5       5.0       7.5
10.0
  (HOURS)    (AF)      (CFS)
 ---------------------------------------------------------------
-------------
   0.08      0.0001      0.03
Q         .         .         .         .
   0.17      0.0003      0.03
Q         .         .         .         .
   0.25      0.0005      0.03
Q         .         .         .         .
   0.33      0.0007      0.03
Q         .         .         .         .
   0.42      0.0009      0.03
Q         .         .         .         .
   0.50      0.0011      0.03
Q         .         .         .         .
   0.58      0.0013      0.03
Q         .         .         .         .
   0.67      0.0015      0.03
Q         .         .         .         .
   0.75      0.0017      0.03
Q         .         .         .         .
   0.83      0.0018      0.03
Q         .         .         .         .
   0.92      0.0020      0.03
Q         .         .         .         .
   1.00      0.0022      0.03
Q         .         .         .         .
   1.08      0.0024      0.03
Q         .         .         .         .
   1.17      0.0026      0.03
Q         .         .         .         .
   1.25      0.0028      0.03
Q         .         .         .         .
   1.33      0.0030      0.03
Q         .         .         .         .
   1.42      0.0032      0.03
Q         .         .         .         .
   1.50      0.0035      0.03
Q         .         .         .         .
   1.58      0.0037      0.03
Q         .         .         .         .
   1.67      0.0039      0.03
Q         .         .         .         .
   1.75      0.0041      0.03
Q         .         .         .         .
   1.83      0.0043      0.03
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 1.92 | 0.0045 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.00 | 0.0047 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.08 | 0.0049 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.17 | 0.0051 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.25 | 0.0053 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.33 | 0.0055 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.42 | 0.0057 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.50 | 0.0059 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.58 | 0.0062 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.67 | 0.0064 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.75 | 0.0066 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.83 | 0.0068 | 0.03 | | |
| Q | . | . | . | . | |
| | 2.92 | 0.0070 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.00 | 0.0072 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.08 | 0.0075 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.17 | 0.0077 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.25 | 0.0079 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.33 | 0.0081 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.42 | 0.0083 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.50 | 0.0086 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.58 | 0.0088 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.67 | 0.0090 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.75 | 0.0092 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.83 | 0.0095 | 0.03 | | |
| Q | . | . | . | . | |
| | 3.92 | 0.0097 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.00 | 0.0099 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.08 | 0.0101 | 0.03 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 4.17 | 0.0104 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.25 | 0.0106 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.33 | 0.0108 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.42 | 0.0111 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.50 | 0.0113 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.58 | 0.0115 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.67 | 0.0118 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.75 | 0.0120 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.83 | 0.0122 | 0.03 | | |
| Q | . | . | . | . | |
| | 4.92 | 0.0125 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.00 | 0.0127 | 0.03 | | |
| Q | . | . | . | . | |
| | 5.08 | 0.0130 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.17 | 0.0132 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.25 | 0.0134 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.33 | 0.0137 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.42 | 0.0139 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.50 | 0.0142 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.58 | 0.0144 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.67 | 0.0147 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.75 | 0.0149 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.83 | 0.0152 | 0.04 | | |
| Q | . | . | . | . | |
| | 5.92 | 0.0154 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.00 | 0.0157 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.08 | 0.0159 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.17 | 0.0162 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.25 | 0.0165 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.33 | 0.0167 | 0.04 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 6.42 | 0.0170 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.50 | 0.0172 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.58 | 0.0175 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.67 | 0.0178 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.75 | 0.0180 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.83 | 0.0183 | 0.04 | | |
| Q | . | . | . | . | |
| | 6.92 | 0.0186 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.00 | 0.0188 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.08 | 0.0191 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.17 | 0.0194 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.25 | 0.0197 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.33 | 0.0199 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.42 | 0.0202 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.50 | 0.0205 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.58 | 0.0208 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.67 | 0.0211 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.75 | 0.0214 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.83 | 0.0216 | 0.04 | | |
| Q | . | . | . | . | |
| | 7.92 | 0.0219 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.00 | 0.0222 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.08 | 0.0225 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.17 | 0.0228 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.25 | 0.0231 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.33 | 0.0234 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.42 | 0.0237 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.50 | 0.0240 | 0.04 | | |
| Q | . | . | . | . | |
| | 8.58 | 0.0243 | 0.04 | | |

| | | | | |
|---|---|---|---|---|
| Q | . | . | . | . |
| 8.67 | 0.0246 | 0.04 | | |
| Q | . | . | . | . |
| 8.75 | 0.0249 | 0.05 | | |
| Q | . | . | . | . |
| 8.83 | 0.0252 | 0.05 | | |
| Q | . | . | . | . |
| 8.92 | 0.0256 | 0.05 | | |
| Q | . | . | . | . |
| 9.00 | 0.0259 | 0.05 | | |
| Q | . | . | . | . |
| 9.08 | 0.0262 | 0.05 | | |
| Q | . | . | . | . |
| 9.17 | 0.0265 | 0.05 | | |
| Q | . | . | . | . |
| 9.25 | 0.0268 | 0.05 | | |
| Q | . | . | . | . |
| 9.33 | 0.0272 | 0.05 | | |
| Q | . | . | . | . |
| 9.42 | 0.0275 | 0.05 | | |
| Q | . | . | . | . |
| 9.50 | 0.0278 | 0.05 | | |
| Q | . | . | . | . |
| 9.58 | 0.0281 | 0.05 | | |
| Q | . | . | . | . |
| 9.67 | 0.0285 | 0.05 | | |
| Q | . | . | . | . |
| 9.75 | 0.0288 | 0.05 | | |
| Q | . | . | . | . |
| 9.83 | 0.0292 | 0.05 | | |
| Q | . | . | . | . |
| 9.92 | 0.0295 | 0.05 | | |
| Q | . | . | . | . |
| 10.00 | 0.0298 | 0.05 | | |
| Q | . | . | . | . |
| 10.08 | 0.0302 | 0.05 | | |
| Q | . | . | . | . |
| 10.17 | 0.0306 | 0.05 | | |
| Q | . | . | . | . |
| 10.25 | 0.0309 | 0.05 | | |
| Q | . | . | . | . |
| 10.33 | 0.0313 | 0.05 | | |
| Q | . | . | . | . |
| 10.42 | 0.0316 | 0.05 | | |
| Q | . | . | . | . |
| 10.50 | 0.0320 | 0.05 | | |
| Q | . | . | . | . |
| 10.58 | 0.0324 | 0.05 | | |
| Q | . | . | . | . |
| 10.67 | 0.0327 | 0.05 | | |
| Q | . | . | . | . |
| 10.75 | 0.0331 | 0.05 | | |
| Q | . | . | . | . |
| 10.83 | 0.0335 | 0.06 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| 10.92 | 0.0339 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.00 | 0.0342 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.08 | 0.0346 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.17 | 0.0350 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.25 | 0.0354 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.33 | 0.0358 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.42 | 0.0362 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.50 | 0.0366 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.58 | 0.0371 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.67 | 0.0375 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.75 | 0.0379 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.83 | 0.0383 | 0.06 | | | |
| Q | . | . | . | . | |
| 11.92 | 0.0388 | 0.06 | | | |
| Q | . | . | . | . | |
| 12.00 | 0.0392 | 0.06 | | | |
| Q | . | . | . | . | |
| 12.08 | 0.0397 | 0.08 | | | |
| Q | . | . | . | . | |
| 12.17 | 0.0403 | 0.08 | | | |
| Q | . | . | . | . | |
| 12.25 | 0.0408 | 0.08 | | | |
| Q | . | . | . | . | |
| 12.33 | 0.0414 | 0.08 | | | |
| Q | . | . | . | . | |
| 12.42 | 0.0420 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.50 | 0.0426 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.58 | 0.0432 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.67 | 0.0438 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.75 | 0.0444 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.83 | 0.0450 | 0.09 | | | |
| Q | . | . | . | . | |
| 12.92 | 0.0456 | 0.09 | | | |
| Q | . | . | . | . | |
| 13.00 | 0.0463 | 0.09 | | | |
| Q | . | . | . | . | |
| 13.08 | 0.0469 | 0.09 | | | |

| | | | | |
|---|---|---|---|---|
| Q | . | . | . | . |
| 13.17 | 0.0476 | 0.10 | | |
| Q | . | . | . | . |
| 13.25 | 0.0482 | 0.10 | | |
| Q | . | . | . | . |
| 13.33 | 0.0489 | 0.10 | | |
| Q | . | . | . | . |
| 13.42 | 0.0496 | 0.10 | | |
| Q | . | . | . | . |
| 13.50 | 0.0503 | 0.10 | | |
| Q | . | . | . | . |
| 13.58 | 0.0510 | 0.10 | | |
| Q | . | . | . | . |
| 13.67 | 0.0517 | 0.10 | | |
| Q | . | . | . | . |
| 13.75 | 0.0524 | 0.11 | | |
| Q | . | . | . | . |
| 13.83 | 0.0532 | 0.11 | | |
| Q | . | . | . | . |
| 13.92 | 0.0539 | 0.11 | | |
| Q | . | . | . | . |
| 14.00 | 0.0547 | 0.11 | | |
| Q | . | . | . | . |
| 14.08 | 0.0555 | 0.13 | | |
| Q | . | . | . | . |
| 14.17 | 0.0564 | 0.13 | | |
| Q | . | . | . | . |
| 14.25 | 0.0573 | 0.13 | | |
| Q | . | . | . | . |
| 14.33 | 0.0583 | 0.14 | | |
| Q | . | . | . | . |
| 14.42 | 0.0592 | 0.14 | | |
| Q | . | . | . | . |
| 14.50 | 0.0602 | 0.14 | | |
| Q | . | . | . | . |
| 14.58 | 0.0612 | 0.15 | | |
| Q | . | . | . | . |
| 14.67 | 0.0622 | 0.15 | | |
| Q | . | . | . | . |
| 14.75 | 0.0632 | 0.15 | | |
| Q | . | . | . | . |
| 14.83 | 0.0643 | 0.16 | | |
| Q | . | . | . | . |
| 14.92 | 0.0654 | 0.16 | | |
| Q | . | . | . | . |
| 15.00 | 0.0666 | 0.17 | | |
| Q | . | . | . | . |
| 15.08 | 0.0678 | 0.18 | | |
| Q | . | . | . | . |
| 15.17 | 0.0690 | 0.18 | | |
| Q | . | . | . | . |
| 15.25 | 0.0703 | 0.19 | | |
| Q | . | . | . | . |
| 15.33 | 0.0716 | 0.20 | | |

```
Q          .          .          .          .
  15.42      0.0730      0.19
Q          .          .          .          .
  15.50      0.0743      0.20
Q          .          .          .          .
  15.58      0.0758      0.22
Q          .          .          .          .
  15.67      0.0774      0.24
Q          .          .          .          .
  15.75      0.0791
0.27  .Q         .          .          .          .
  15.83      0.0811
0.30  .Q         .          .          .          .
  15.92      0.0835
0.41  .Q         .          .          .          .
  16.00      0.0868      0.54  .
Q       .          .          .          .
  16.08      0.0935      1.42  .
Q    .          .          .          .
  16.17      0.0996
0.34  .Q         .          .          .          .
  16.25      0.1016
0.26  .Q         .          .          .          .
  16.33      0.1032      0.21
Q          .          .          .          .
  16.42      0.1047      0.21
Q          .          .          .          .
  16.50      0.1060      0.19
Q          .          .          .          .
  16.58      0.1073      0.17
Q          .          .          .          .
  16.67      0.1084      0.16
Q          .          .          .          .
  16.75      0.1095      0.15
Q          .          .          .          .
  16.83      0.1105      0.14
Q          .          .          .          .
  16.92      0.1115      0.14
Q          .          .          .          .
  17.00      0.1124      0.13
Q          .          .          .          .
  17.08      0.1132      0.11
Q          .          .          .          .
  17.17      0.1140      0.11
Q          .          .          .          .
  17.25      0.1148      0.11
Q          .          .          .          .
  17.33      0.1155      0.10
Q          .          .          .          .
  17.42      0.1162      0.10
Q          .          .          .          .
  17.50      0.1168      0.10
Q          .          .          .          .
  17.58      0.1175      0.09
```

| | | | | |
|---|---|---|---|---|
| Q | . | . | . | . |
| 17.67 | 0.1181 | 0.09 | | |
| Q | . | . | . | . |
| 17.75 | 0.1188 | 0.09 | | |
| Q | . | . | . | . |
| 17.83 | 0.1194 | 0.09 | | |
| Q | . | . | . | . |
| 17.92 | 0.1199 | 0.08 | | |
| Q | . | . | . | . |
| 18.00 | 0.1205 | 0.08 | | |
| Q | . | . | . | . |
| 18.08 | 0.1210 | 0.06 | | |
| Q | . | . | . | . |
| 18.17 | 0.1215 | 0.06 | | |
| Q | . | . | . | . |
| 18.25 | 0.1219 | 0.06 | | |
| Q | . | . | . | . |
| 18.33 | 0.1223 | 0.06 | | |
| Q | . | . | . | . |
| 18.42 | 0.1227 | 0.06 | | |
| Q | . | . | . | . |
| 18.50 | 0.1231 | 0.06 | | |
| Q | . | . | . | . |
| 18.58 | 0.1235 | 0.06 | | |
| Q | . | . | . | . |
| 18.67 | 0.1239 | 0.06 | | |
| Q | . | . | . | . |
| 18.75 | 0.1243 | 0.05 | | |
| Q | . | . | . | . |
| 18.83 | 0.1247 | 0.05 | | |
| Q | . | . | . | . |
| 18.92 | 0.1250 | 0.05 | | |
| Q | . | . | . | . |
| 19.00 | 0.1254 | 0.05 | | |
| Q | . | . | . | . |
| 19.08 | 0.1257 | 0.05 | | |
| Q | . | . | . | . |
| 19.17 | 0.1261 | 0.05 | | |
| Q | . | . | . | . |
| 19.25 | 0.1264 | 0.05 | | |
| Q | . | . | . | . |
| 19.33 | 0.1268 | 0.05 | | |
| Q | . | . | . | . |
| 19.42 | 0.1271 | 0.05 | | |
| Q | . | . | . | . |
| 19.50 | 0.1274 | 0.05 | | |
| Q | . | . | . | . |
| 19.58 | 0.1277 | 0.05 | | |
| Q | . | . | . | . |
| 19.67 | 0.1280 | 0.05 | | |
| Q | . | . | . | . |
| 19.75 | 0.1284 | 0.04 | | |
| Q | . | . | . | . |
| 19.83 | 0.1287 | 0.04 | | |

| | | | | |
|---|---|---|---|---|
| Q | . | . | . | . |
| 19.92 | 0.1290 | 0.04 | | |
| Q | . | . | . | . |
| 20.00 | 0.1293 | 0.04 | | |
| Q | . | . | . | . |
| 20.08 | 0.1296 | 0.04 | | |
| Q | . | . | . | . |
| 20.17 | 0.1298 | 0.04 | | |
| Q | . | . | . | . |
| 20.25 | 0.1301 | 0.04 | | |
| Q | . | . | . | . |
| 20.33 | 0.1304 | 0.04 | | |
| Q | . | . | . | . |
| 20.42 | 0.1307 | 0.04 | | |
| Q | . | . | . | . |
| 20.50 | 0.1310 | 0.04 | | |
| Q | . | . | . | . |
| 20.58 | 0.1313 | 0.04 | | |
| Q | . | . | . | . |
| 20.67 | 0.1315 | 0.04 | | |
| Q | . | . | . | . |
| 20.75 | 0.1318 | 0.04 | | |
| Q | . | . | . | . |
| 20.83 | 0.1321 | 0.04 | | |
| Q | . | . | . | . |
| 20.92 | 0.1323 | 0.04 | | |
| Q | . | . | . | . |
| 21.00 | 0.1326 | 0.04 | | |
| Q | . | . | . | . |
| 21.08 | 0.1328 | 0.04 | | |
| Q | . | . | . | . |
| 21.17 | 0.1331 | 0.04 | | |
| Q | . | . | . | . |
| 21.25 | 0.1333 | 0.04 | | |
| Q | . | . | . | . |
| 21.33 | 0.1336 | 0.04 | | |
| Q | . | . | . | . |
| 21.42 | 0.1338 | 0.04 | | |
| Q | . | . | . | . |
| 21.50 | 0.1341 | 0.04 | | |
| Q | . | . | . | . |
| 21.58 | 0.1343 | 0.04 | | |
| Q | . | . | . | . |
| 21.67 | 0.1346 | 0.03 | | |
| Q | . | . | . | . |
| 21.75 | 0.1348 | 0.03 | | |
| Q | . | . | . | . |
| 21.83 | 0.1350 | 0.03 | | |
| Q | . | . | . | . |
| 21.92 | 0.1353 | 0.03 | | |
| Q | . | . | . | . |
| 22.00 | 0.1355 | 0.03 | | |
| Q | . | . | . | . |
| 22.08 | 0.1357 | 0.03 | | |

```
Q          .          .          .          .
  22.17      0.1360      0.03
Q          .          .          .          .
  22.25      0.1362      0.03
Q          .          .          .          .
  22.33      0.1364      0.03
Q          .          .          .          .
  22.42      0.1366      0.03
Q          .          .          .          .
  22.50      0.1369      0.03
Q          .          .          .          .
  22.58      0.1371      0.03
Q          .          .          .          .
  22.67      0.1373      0.03
Q          .          .          .          .
  22.75      0.1375      0.03
Q          .          .          .          .
  22.83      0.1377      0.03
Q          .          .          .          .
  22.92      0.1379      0.03
Q          .          .          .          .
  23.00      0.1381      0.03
Q          .          .          .          .
  23.08      0.1383      0.03
Q          .          .          .          .
  23.17      0.1386      0.03
Q          .          .          .          .
  23.25      0.1388      0.03
Q          .          .          .          .
  23.33      0.1390      0.03
Q          .          .          .          .
  23.42      0.1392      0.03
Q          .          .          .          .
  23.50      0.1394      0.03
Q          .          .          .          .
  23.58      0.1396      0.03
Q          .          .          .          .
  23.67      0.1398      0.03
Q          .          .          .          .
  23.75      0.1400      0.03
Q          .          .          .          .
  23.83      0.1402      0.03
Q          .          .          .          .
  23.92      0.1404      0.03
Q          .          .          .          .
  24.00      0.1406      0.03
Q          .          .          .          .
  24.08      0.1406      0.00
Q          .          .          .          .
 ------------------------------------------------------------------
-------------
------------------------------------------------------------------
----------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW
```

RATE:

(Note: 100% of Peak Flow Rate estimate assumed to have an instantaneous time duration)

| Percentile of Estimated Peak Flow Rate | Duration (minutes) |
|---|---|
| 0% | 1440.0 |
| 10% | 145.0 |
| 20% | 25.0 |
| 30% | 10.0 |
| 40% | 5.0 |
| 50% | 5.0 |
| 60% | 5.0 |
| 70% | 5.0 |
| 80% | 5.0 |
| 90% | 5.0 |

```
____________________________________________________________________
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*****************************************************************
************
            NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE
(Fm)
                      AND LOW LOSS FRACTION ESTIMATIONS

=================================================================
============
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                            Analysis prepared by:




*****************************************************************
************
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-------------

  Problem Descriptions:
   McDonald's Santa Ana
   100 YR Existing Conditions


=================================================================
============
 *** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
     AND LOW LOSS FRACTION ESTIMATIONS FOR AMC III:

     TOTAL 24-HOUR DURATION RAINFALL DEPTH =     5.93 (inches)

     SOIL-COVER     AREA      PERCENT OF    SCS CURVE    LOSS
RATE
        TYPE      (Acres)   PERVIOUS AREA     NUMBER
Fp(in./hr.)    YIELD
          1          0.82        0.53       56.(AMC II)
0.959       0.958

     TOTAL AREA (Acres) =      0.82

     AREA-AVERAGED LOSS RATE, F̄m (in./hr.) =  0.005

     AREA-AVERAGED LOW LOSS FRACTION, Ȳ = 0.042
```

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____________________________________________________________________
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*****************************************************************
************
                        SMALL AREA UNIT HYDROGRAPH MODEL

=================================================================
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              Ver. 18.0  Release Date: 05/01/2011  License ID
1499

                             Analysis prepared by:




*****************************************************************
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  Problem Descriptions:
   McDonald's Santa Ana
   100 YR Existing Conditions

 ----------------------------------------------------------------
-------------


     RATIONAL METHOD CALIBRATION COEFFICIENT = 0.90
     TOTAL CATCHMENT AREA(ACRES) =    0.72
     SOIL-LOSS RATE, Fm,(INCH/HR) =  0.000
     LOW LOSS FRACTION = 0.041
     TIME OF CONCENTRATION(MIN.) = 10.47
     SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
     USER SPECIFIED RAINFALL VALUES ARE USED
     RETURN FREQUENCY(YEARS) = 100
        5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.39
       30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.93
        1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.31
        3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.35
        6-HOUR   POINT RAINFALL VALUE(INCHES) =  3.31
       24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.93

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```
     TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     0.32
     TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =     0.04

*****************************************************************
************
   TIME     VOLUME       Q    0.        2.5       5.0       7.5
10.0
  (HOURS)    (AF)      (CFS)
 ---------------------------------------------------------------
-------------
   0.12      0.0003      0.07
Q         .         .         .         .
   0.29      0.0013      0.07
Q         .         .         .         .
   0.47      0.0023      0.07
Q         .         .         .         .
   0.64      0.0033      0.07
Q         .         .         .         .
   0.82      0.0043      0.07
Q         .         .         .         .
   0.99      0.0053      0.07
Q         .         .         .         .
   1.17      0.0063      0.07
Q         .         .         .         .
   1.34      0.0073      0.07
Q         .         .         .         .
   1.52      0.0083      0.07
Q         .         .         .         .
   1.69      0.0093      0.07
Q         .         .         .         .
   1.87      0.0104      0.07
Q         .         .         .         .
   2.04      0.0114      0.07
Q         .         .         .         .
   2.21      0.0125      0.07
Q         .         .         .         .
   2.39      0.0135      0.07
Q         .         .         .         .
   2.56      0.0146      0.07
Q         .         .         .         .
   2.74      0.0156      0.07
Q         .         .         .         .
   2.91      0.0167      0.08
Q         .         .         .         .
   3.09      0.0178      0.08
Q         .         .         .         .
   3.26      0.0189      0.08
Q         .         .         .         .
   3.44      0.0200      0.08
Q         .         .         .         .
   3.61      0.0211      0.08
Q         .         .         .         .
   3.78      0.0223      0.08
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 3.96 | 0.0234 | 0.08 | | |
| Q | . | . | . | . | |
| | 4.13 | 0.0245 | 0.08 | | |
| Q | . | . | . | . | |
| | 4.31 | 0.0257 | 0.08 | | |
| Q | . | . | . | . | |
| | 4.48 | 0.0268 | 0.08 | | |
| Q | . | . | . | . | |
| | 4.66 | 0.0280 | 0.08 | | |
| Q | . | . | . | . | |
| | 4.83 | 0.0292 | 0.08 | | |
| Q | . | . | . | . | |
| | 5.01 | 0.0304 | 0.08 | | |
| Q | . | . | . | . | |
| | 5.18 | 0.0316 | 0.08 | | |
| Q | . | . | . | . | |
| | 5.36 | 0.0328 | 0.08 | | |
| Q | . | . | . | . | |
| | 5.53 | 0.0340 | 0.09 | | |
| Q | . | . | . | . | |
| | 5.70 | 0.0353 | 0.09 | | |
| Q | . | . | . | . | |
| | 5.88 | 0.0365 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.05 | 0.0378 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.23 | 0.0391 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.40 | 0.0403 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.58 | 0.0416 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.75 | 0.0430 | 0.09 | | |
| Q | . | . | . | . | |
| | 6.93 | 0.0443 | 0.09 | | |
| Q | . | . | . | . | |
| | 7.10 | 0.0456 | 0.09 | | |
| Q | . | . | . | . | |
| | 7.28 | 0.0470 | 0.09 | | |
| Q | . | . | . | . | |
| | 7.45 | 0.0484 | 0.10 | | |
| Q | . | . | . | . | |
| | 7.62 | 0.0498 | 0.10 | | |
| Q | . | . | . | . | |
| | 7.80 | 0.0512 | 0.10 | | |
| Q | . | . | . | . | |
| | 7.97 | 0.0526 | 0.10 | | |
| Q | . | . | . | . | |
| | 8.15 | 0.0540 | 0.10 | | |
| Q | . | . | . | . | |
| | 8.32 | 0.0555 | 0.10 | | |
| Q | . | . | . | . | |
| | 8.50 | 0.0570 | 0.10 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 8.67 | 0.0585 | 0.10 | | |
| Q | . | . | . | . | |
| | 8.85 | 0.0600 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.02 | 0.0615 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.19 | 0.0631 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.37 | 0.0647 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.54 | 0.0663 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.72 | 0.0679 | 0.11 | | |
| Q | . | . | . | . | |
| | 9.89 | 0.0696 | 0.12 | | |
| Q | . | . | . | . | |
| | 10.07 | 0.0713 | 0.12 | | |
| Q | . | . | . | . | |
| | 10.24 | 0.0730 | 0.12 | | |
| Q | . | . | . | . | |
| | 10.42 | 0.0747 | 0.12 | | |
| Q | . | . | . | . | |
| | 10.59 | 0.0765 | 0.12 | | |
| Q | . | . | . | . | |
| | 10.76 | 0.0783 | 0.13 | | |
| Q | . | . | . | . | |
| | 10.94 | 0.0802 | 0.13 | | |
| Q | . | . | . | . | |
| | 11.11 | 0.0820 | 0.13 | | |
| Q | . | . | . | . | |
| | 11.29 | 0.0840 | 0.13 | | |
| Q | . | . | . | . | |
| | 11.46 | 0.0859 | 0.14 | | |
| Q | . | . | . | . | |
| | 11.64 | 0.0879 | 0.14 | | |
| Q | . | . | . | . | |
| | 11.81 | 0.0900 | 0.14 | | |
| Q | . | . | . | . | |
| | 11.99 | 0.0921 | 0.15 | | |
| Q | . | . | . | . | |
| | 12.16 | 0.0943 | 0.16 | | |
| Q | . | . | . | . | |
| | 12.34 | 0.0968 | 0.18 | | |
| Q | . | . | . | . | |
| | 12.51 | 0.0994 | 0.18 | | |
| Q | . | . | . | . | |
| | 12.68 | 0.1021 | 0.19 | | |
| Q | . | . | . | . | |
| | 12.86 | 0.1049 | 0.19 | | |
| Q | . | . | . | . | |
| | 13.03 | 0.1077 | 0.20 | | |
| Q | . | . | . | . | |
| | 13.21 | 0.1107 | 0.21 | | |

```
Q          .          .          .          .
  13.38      0.1137      0.21
Q          .          .          .          .
  13.56      0.1168      0.22
Q          .          .          .          .
  13.73      0.1201      0.23
Q          .          .          .          .
  13.91      0.1234      0.24
Q          .          .          .          .
  14.08      0.1269
0.25  .Q        .          .          .          .
  14.26      0.1307
0.28  .Q        .          .          .          .
  14.43      0.1348
0.29  .Q        .          .          .          .
  14.60      0.1391
0.30  .Q        .          .          .          .
  14.78      0.1436
0.33  .Q        .          .          .          .
  14.95      0.1484
0.34  .Q        .          .          .          .
  15.13      0.1536
0.38  .Q        .          .          .          .
  15.30      0.1592
0.40  .Q        .          .          .          .
  15.48      0.1652
0.44  .Q        .          .          .          .
  15.65      0.1718
0.47  .Q        .          .          .          .
  15.83      0.1798      0.63  .
Q       .          .          .          .
  16.00      0.1903      0.83  .
Q      .          .          .          .
  16.17      0.2112      2.07  .
Q .          .          .          .
  16.35      0.2301      0.54  .
Q       .          .          .          .
  16.52      0.2370
0.43  .Q        .          .          .          .
  16.70      0.2427
0.36  .Q        .          .          .          .
  16.87      0.2475
0.31  .Q        .          .          .          .
  17.05      0.2518
0.28  .Q        .          .          .          .
  17.22      0.2556      0.24
Q          .          .          .          .
  17.40      0.2589      0.22
Q          .          .          .          .
  17.57      0.2621      0.21
Q          .          .          .          .
  17.74      0.2650      0.20
Q          .          .          .          .
  17.92      0.2678      0.19
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| 18.09 | 0.2704 | 0.18 | | | |
| Q | . | . | . | . | |
| 18.27 | 0.2728 | 0.15 | | | |
| Q | . | . | . | . | |
| 18.44 | 0.2748 | 0.14 | | | |
| Q | . | . | . | . | |
| 18.62 | 0.2768 | 0.13 | | | |
| Q | . | . | . | . | |
| 18.79 | 0.2787 | 0.13 | | | |
| Q | . | . | . | . | |
| 18.97 | 0.2805 | 0.12 | | | |
| Q | . | . | . | . | |
| 19.14 | 0.2822 | 0.12 | | | |
| Q | . | . | . | . | |
| 19.32 | 0.2839 | 0.12 | | | |
| Q | . | . | . | . | |
| 19.49 | 0.2855 | 0.11 | | | |
| Q | . | . | . | . | |
| 19.66 | 0.2871 | 0.11 | | | |
| Q | . | . | . | . | |
| 19.84 | 0.2887 | 0.11 | | | |
| Q | . | . | . | . | |
| 20.01 | 0.2902 | 0.10 | | | |
| Q | . | . | . | . | |
| 20.19 | 0.2916 | 0.10 | | | |
| Q | . | . | . | . | |
| 20.36 | 0.2931 | 0.10 | | | |
| Q | . | . | . | . | |
| 20.54 | 0.2944 | 0.10 | | | |
| Q | . | . | . | . | |
| 20.71 | 0.2958 | 0.09 | | | |
| Q | . | . | . | . | |
| 20.89 | 0.2971 | 0.09 | | | |
| Q | . | . | . | . | |
| 21.06 | 0.2984 | 0.09 | | | |
| Q | . | . | . | . | |
| 21.23 | 0.2997 | 0.09 | | | |
| Q | . | . | . | . | |
| 21.41 | 0.3010 | 0.09 | | | |
| Q | . | . | . | . | |
| 21.58 | 0.3022 | 0.08 | | | |
| Q | . | . | . | . | |
| 21.76 | 0.3034 | 0.08 | | | |
| Q | . | . | . | . | |
| 21.93 | 0.3046 | 0.08 | | | |
| Q | . | . | . | . | |
| 22.11 | 0.3057 | 0.08 | | | |
| Q | . | . | . | . | |
| 22.28 | 0.3069 | 0.08 | | | |
| Q | . | . | . | . | |
| 22.46 | 0.3080 | 0.08 | | | |
| Q | . | . | . | . | |
| 22.63 | 0.3091 | 0.08 | | | |

```
Q         .         .         .         .
  22.81      0.3102      0.07
Q         .         .         .         .
  22.98      0.3113      0.07
Q         .         .         .         .
  23.15      0.3123      0.07
Q         .         .         .         .
  23.33      0.3134      0.07
Q         .         .         .         .
  23.50      0.3144      0.07
Q         .         .         .         .
  23.68      0.3154      0.07
Q         .         .         .         .
  23.85      0.3164      0.07
Q         .         .         .         .
  24.03      0.3174      0.07
Q         .         .         .         .
  24.20      0.3179      0.00
Q         .         .         .         .
 ------------------------------------------------------------------
-------------
------------------------------------------------------------------
----------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW
RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)
```

| Percentile of Estimated Peak Flow Rate | Duration (minutes) |
|---|---|
| 0% | 1444.9 |
| 10% | 261.8 |
| 20% | 73.3 |
| 30% | 31.4 |
| 40% | 10.5 |
| 50% | 10.5 |
| 60% | 10.5 |
| 70% | 10.5 |
| 80% | 10.5 |
| 90% | 10.5 |

```
_____________________________________________________________________
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*****************************************************************
************
            NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE
(Fm)
                      AND LOW LOSS FRACTION ESTIMATIONS

=================================================================
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1499

                            Analysis prepared by:




*****************************************************************
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  Problem Descriptions:
   McDonald's Santa Ana
   100 YR Proposed Conditions


=================================================================
============
 *** NON-HOMOGENEOUS WATERSHED AREA-AVERAGED LOSS RATE (Fm)
     AND LOW LOSS FRACTION ESTIMATIONS FOR AMC III:

     TOTAL 24-HOUR DURATION RAINFALL DEPTH =     5.93 (inches)

     SOIL-COVER     AREA      PERCENT OF    SCS CURVE    LOSS
RATE
        TYPE      (Acres)   PERVIOUS AREA     NUMBER
Fp(in./hr.)    YIELD
          1          0.72        0.24       56.(AMC II)
           0.959       0.959

     TOTAL AREA (Acres) =      0.72

     AREA-AVERAGED LOSS RATE, F̄m (in./hr.) =  0.000

     AREA-AVERAGED LOW LOSS FRACTION, Ȳ = 0.041
```

```
____________________________________________________________________
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*****************************************************************
************
                        SMALL AREA UNIT HYDROGRAPH MODEL

=================================================================
============
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(aes)
              Ver. 18.0  Release Date: 05/01/2011  License ID
1499

                             Analysis prepared by:




*****************************************************************
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  Problem Descriptions:
   McDonald's Santa Ana
   100 YR Proposed Conditions

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-------------


     RATIONAL METHOD CALIBRATION COEFFICIENT = 1.33
     TOTAL CATCHMENT AREA(ACRES) =    0.72
     SOIL-LOSS RATE, Fm,(INCH/HR) =  0.000
     LOW LOSS FRACTION = 0.041
     TIME OF CONCENTRATION(MIN.) =  5.16
     SMALL AREA PEAK Q COMPUTED USING PEAK FLOW RATE FORMULA
     USER SPECIFIED RAINFALL VALUES ARE USED
     RETURN FREQUENCY(YEARS) =   2
        5-MINUTE POINT RAINFALL VALUE(INCHES) =  0.39
       30-MINUTE POINT RAINFALL VALUE(INCHES) =  0.93
        1-HOUR   POINT RAINFALL VALUE(INCHES) =  1.31
        3-HOUR   POINT RAINFALL VALUE(INCHES) =  2.35
        6-HOUR   POINT RAINFALL VALUE(INCHES) =  3.31
       24-HOUR   POINT RAINFALL VALUE(INCHES) =  5.93

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-------------
```

```
     TOTAL CATCHMENT   RUNOFF  VOLUME(ACRE-FEET) =     0.47
     TOTAL CATCHMENT SOIL-LOSS VOLUME(ACRE-FEET) =    -0.11

*****************************************************************
************
   TIME     VOLUME       Q    0.        2.5       5.0       7.5
10.0
  (HOURS)    (AF)      (CFS)
 ---------------------------------------------------------------
-------------
   0.00      0.0000      0.00
Q         .         .         .         .
   0.09      0.0004      0.10
Q         .         .         .         .
   0.18      0.0011      0.10
Q         .         .         .         .
   0.26      0.0018      0.10
Q         .         .         .         .
   0.35      0.0025      0.10
Q         .         .         .         .
   0.43      0.0032      0.10
Q         .         .         .         .
   0.52      0.0039      0.10
Q         .         .         .         .
   0.61      0.0046      0.10
Q         .         .         .         .
   0.69      0.0054      0.10
Q         .         .         .         .
   0.78      0.0061      0.10
Q         .         .         .         .
   0.86      0.0068      0.10
Q         .         .         .         .
   0.95      0.0075      0.10
Q         .         .         .         .
   1.04      0.0083      0.10
Q         .         .         .         .
   1.12      0.0090      0.10
Q         .         .         .         .
   1.21      0.0097      0.10
Q         .         .         .         .
   1.29      0.0105      0.10
Q         .         .         .         .
   1.38      0.0112      0.10
Q         .         .         .         .
   1.47      0.0120      0.10
Q         .         .         .         .
   1.55      0.0127      0.11
Q         .         .         .         .
   1.64      0.0135      0.11
Q         .         .         .         .
   1.72      0.0142      0.11
Q         .         .         .         .
   1.81      0.0150      0.11
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 1.90 | 0.0157 | 0.11 | | |
| Q | . | . | . | . | |
| | 1.98 | 0.0165 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.07 | 0.0173 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.15 | 0.0180 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.24 | 0.0188 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.33 | 0.0196 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.41 | 0.0203 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.50 | 0.0211 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.58 | 0.0219 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.67 | 0.0227 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.76 | 0.0235 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.84 | 0.0242 | 0.11 | | |
| Q | . | . | . | . | |
| | 2.93 | 0.0250 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.01 | 0.0258 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.10 | 0.0266 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.19 | 0.0274 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.27 | 0.0282 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.36 | 0.0290 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.44 | 0.0299 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.53 | 0.0307 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.62 | 0.0315 | 0.11 | | |
| Q | . | . | . | . | |
| | 3.70 | 0.0323 | 0.12 | | |
| Q | . | . | . | . | |
| | 3.79 | 0.0331 | 0.12 | | |
| Q | . | . | . | . | |
| | 3.87 | 0.0339 | 0.12 | | |
| Q | . | . | . | . | |
| | 3.96 | 0.0348 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.05 | 0.0356 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.13 | 0.0364 | 0.12 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 4.22 | 0.0373 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.30 | 0.0381 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.39 | 0.0390 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.48 | 0.0398 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.56 | 0.0407 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.65 | 0.0415 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.73 | 0.0424 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.82 | 0.0433 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.91 | 0.0441 | 0.12 | | |
| Q | . | . | . | . | |
| | 4.99 | 0.0450 | 0.12 | | |
| Q | . | . | . | . | |
| | 5.08 | 0.0459 | 0.12 | | |
| Q | . | . | . | . | |
| | 5.16 | 0.0468 | 0.12 | | |
| Q | . | . | . | . | |
| | 5.25 | 0.0477 | 0.12 | | |
| Q | . | . | . | . | |
| | 5.34 | 0.0485 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.42 | 0.0494 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.51 | 0.0503 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.59 | 0.0512 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.68 | 0.0521 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.77 | 0.0531 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.85 | 0.0540 | 0.13 | | |
| Q | . | . | . | . | |
| | 5.94 | 0.0549 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.02 | 0.0558 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.11 | 0.0567 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.20 | 0.0577 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.28 | 0.0586 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.37 | 0.0596 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.45 | 0.0605 | 0.13 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 6.54 | 0.0615 | 0.13 | | |
| Q | . | . | . | . | |
| | 6.63 | 0.0624 | 0.14 | | |
| Q | . | . | . | . | |
| | 6.71 | 0.0634 | 0.14 | | |
| Q | . | . | . | . | |
| | 6.80 | 0.0643 | 0.14 | | |
| Q | . | . | . | . | |
| | 6.88 | 0.0653 | 0.14 | | |
| Q | . | . | . | . | |
| | 6.97 | 0.0663 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.06 | 0.0673 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.14 | 0.0683 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.23 | 0.0693 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.31 | 0.0703 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.40 | 0.0713 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.49 | 0.0723 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.57 | 0.0733 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.66 | 0.0743 | 0.14 | | |
| Q | . | . | . | . | |
| | 7.74 | 0.0753 | 0.15 | | |
| Q | . | . | . | . | |
| | 7.83 | 0.0764 | 0.15 | | |
| Q | . | . | . | . | |
| | 7.92 | 0.0774 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.00 | 0.0785 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.09 | 0.0795 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.17 | 0.0806 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.26 | 0.0817 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.35 | 0.0827 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.43 | 0.0838 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.52 | 0.0849 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.60 | 0.0860 | 0.15 | | |
| Q | . | . | . | . | |
| | 8.69 | 0.0871 | 0.16 | | |
| Q | . | . | . | . | |
| | 8.78 | 0.0882 | 0.16 | | |

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| | 8.86 | 0.0893 | 0.16 | | |
| Q | . | . | . | . | |
| | 8.95 | 0.0905 | 0.16 | | |
| Q | . | . | . | . | |
| | 9.03 | 0.0916 | 0.16 | | |
| Q | . | . | . | . | |
| | 9.12 | 0.0927 | 0.16 | | |
| Q | . | . | . | . | |
| | 9.21 | 0.0939 | 0.16 | | |
| Q | . | . | . | . | |
| | 9.29 | 0.0950 | 0.16 | | |
| Q | . | . | . | . | |
| | 9.38 | 0.0962 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.46 | 0.0974 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.55 | 0.0986 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.64 | 0.0998 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.72 | 0.1010 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.81 | 0.1022 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.89 | 0.1034 | 0.17 | | |
| Q | . | . | . | . | |
| | 9.98 | 0.1046 | 0.17 | | |
| Q | . | . | . | . | |
| | 10.07 | 0.1059 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.15 | 0.1071 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.24 | 0.1084 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.32 | 0.1097 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.41 | 0.1110 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.50 | 0.1123 | 0.18 | | |
| Q | . | . | . | . | |
| | 10.58 | 0.1136 | 0.19 | | |
| Q | . | . | . | . | |
| | 10.67 | 0.1149 | 0.19 | | |
| Q | . | . | . | . | |
| | 10.75 | 0.1162 | 0.19 | | |
| Q | . | . | . | . | |
| | 10.84 | 0.1176 | 0.19 | | |
| Q | . | . | . | . | |
| | 10.93 | 0.1189 | 0.19 | | |
| Q | . | . | . | . | |
| | 11.01 | 0.1203 | 0.19 | | |
| Q | . | . | . | . | |
| | 11.10 | 0.1217 | 0.20 | | |

```
Q          .          .          .          .
  11.18      0.1231      0.20
Q          .          .          .          .
  11.27      0.1245      0.20
Q          .          .          .          .
  11.36      0.1259      0.20
Q          .          .          .          .
  11.44      0.1274      0.20
Q          .          .          .          .
  11.53      0.1288      0.21
Q          .          .          .          .
  11.61      0.1303      0.21
Q          .          .          .          .
  11.70      0.1318      0.21
Q          .          .          .          .
  11.79      0.1333      0.21
Q          .          .          .          .
  11.87      0.1348      0.22
Q          .          .          .          .
  11.96      0.1364      0.22
Q          .          .          .          .
  12.04      0.1379      0.22
Q          .          .          .          .
  12.13      0.1397
0.26  .Q         .          .          .          .
  12.22      0.1415
0.27  .Q         .          .          .          .
  12.30      0.1434
0.27  .Q         .          .          .          .
  12.39      0.1454
0.27  .Q         .          .          .          .
  12.47      0.1473
0.28  .Q         .          .          .          .
  12.56      0.1493
0.28  .Q         .          .          .          .
  12.65      0.1513
0.28  .Q         .          .          .          .
  12.73      0.1533
0.29  .Q         .          .          .          .
  12.82      0.1553
0.29  .Q         .          .          .          .
  12.90      0.1574
0.29  .Q         .          .          .          .
  12.99      0.1595
0.30  .Q         .          .          .          .
  13.08      0.1616
0.30  .Q         .          .          .          .
  13.16      0.1638
0.31  .Q         .          .          .          .
  13.25      0.1660
0.31  .Q         .          .          .          .
  13.33      0.1682
0.32  .Q         .          .          .          .
  13.42      0.1705
```

```
0.32  .Q        .         .         .         .
  13.51      0.1728
0.33  .Q        .         .         .         .
  13.59      0.1751
0.33  .Q        .         .         .         .
  13.68      0.1775
0.34  .Q        .         .         .         .
  13.76      0.1800
0.34  .Q        .         .         .         .
  13.85      0.1824
0.35  .Q        .         .         .         .
  13.94      0.1850
0.36  .Q        .         .         .         .
  14.02      0.1875
0.37  .Q        .         .         .         .
  14.11      0.1902
0.40  .Q        .         .         .         .
  14.19      0.1931
0.41  .Q        .         .         .         .
  14.28      0.1961
0.42  .Q        .         .         .         .
  14.37      0.1991
0.43  .Q        .         .         .         .
  14.45      0.2022
0.44  .Q        .         .         .         .
  14.54      0.2054
0.45  .Q        .         .         .         .
  14.62      0.2086
0.46  .Q        .         .         .         .
  14.71      0.2120
0.48  .Q        .         .         .         .
  14.80      0.2154
0.49  .Q        .         .         .         .
  14.88      0.2190      0.51  .
Q       .         .         .         .
  14.97      0.2227      0.52  .
Q       .         .         .         .
  15.05      0.2265      0.55  .
Q       .         .         .         .
  15.14      0.2304      0.57  .
Q       .         .         .         .
  15.23      0.2346      0.60  .
Q       .         .         .         .
  15.31      0.2390      0.62  .
Q       .         .         .         .
  15.40      0.2434      0.64  .
Q       .         .         .         .
  15.48      0.2480      0.65  .
Q       .         .         .         .
  15.57      0.2529      0.73  .
Q       .         .         .         .
  15.66      0.2583      0.77  .
Q       .         .         .         .
  15.74      0.2642      0.89  .
```

```
Q       .          .          .          .
  15.83      0.2709      0.99  .
Q       .          .          .          .
  15.91      0.2792      1.34  .
Q     .          .          .          .
  16.00      0.2902      1.76  .
Q  .          .          .          .
  16.09      0.3121      4.41  .          .
Q  .          .          .
  16.17      0.3318      1.12  .
Q      .          .          .          .
  16.26      0.3387      0.83  .
Q       .          .          .          .
  16.34      0.3441      0.69  .
Q        .          .          .          .
  16.43      0.3489      0.65  .
Q        .          .          .          .
  16.52      0.3532      0.58  .
Q        .          .          .          .
  16.60      0.3572      0.54  .
Q        .          .          .          .
  16.69      0.3609      0.50  .
Q        .          .          .          .
  16.77      0.3644
0.47  .Q        .          .          .          .
  16.86      0.3676
0.45  .Q        .          .          .          .
  16.95      0.3707
0.42  .Q        .          .          .          .
  17.03      0.3737
0.41  .Q        .          .          .          .
  17.12      0.3764
0.36  .Q        .          .          .          .
  17.20      0.3789
0.35  .Q        .          .          .          .
  17.29      0.3814
0.34  .Q        .          .          .          .
  17.38      0.3837
0.32  .Q        .          .          .          .
  17.46      0.3860
0.31  .Q        .          .          .          .
  17.55      0.3882
0.30  .Q        .          .          .          .
  17.63      0.3903
0.30  .Q        .          .          .          .
  17.72      0.3924
0.29  .Q        .          .          .          .
  17.81      0.3944
0.28  .Q        .          .          .          .
  17.89      0.3964
0.27  .Q        .          .          .          .
  17.98      0.3983
0.27  .Q        .          .          .          .
  18.06      0.4001
```

```
0.25  .Q        .         .         .         .
  18.15      0.4018      0.22
Q         .         .         .         .
  18.24      0.4033      0.21
Q         .         .         .         .
  18.32      0.4048      0.21
Q         .         .         .         .
  18.41      0.4063      0.20
Q         .         .         .         .
  18.49      0.4077      0.20
Q         .         .         .         .
  18.58      0.4091      0.19
Q         .         .         .         .
  18.67      0.4105      0.19
Q         .         .         .         .
  18.75      0.4118      0.19
Q         .         .         .         .
  18.84      0.4132      0.18
Q         .         .         .         .
  18.92      0.4144      0.18
Q         .         .         .         .
  19.01      0.4157      0.18
Q         .         .         .         .
  19.10      0.4170      0.17
Q         .         .         .         .
  19.18      0.4182      0.17
Q         .         .         .         .
  19.27      0.4194      0.17
Q         .         .         .         .
  19.35      0.4206      0.17
Q         .         .         .         .
  19.44      0.4218      0.16
Q         .         .         .         .
  19.53      0.4230      0.16
Q         .         .         .         .
  19.61      0.4241      0.16
Q         .         .         .         .
  19.70      0.4252      0.16
Q         .         .         .         .
  19.78      0.4263      0.16
Q         .         .         .         .
  19.87      0.4274      0.15
Q         .         .         .         .
  19.96      0.4285      0.15
Q         .         .         .         .
  20.04      0.4296      0.15
Q         .         .         .         .
  20.13      0.4306      0.15
Q         .         .         .         .
  20.21      0.4317      0.15
Q         .         .         .         .
  20.30      0.4327      0.14
Q         .         .         .         .
  20.39      0.4337      0.14
```

| | | | | | |
|---|---|---|---|---|---|
| Q | . | . | . | . | |
| 20.47 | 0.4347 | 0.14 | | | |
| Q | . | . | . | . | |
| 20.56 | 0.4357 | 0.14 | | | |
| Q | . | . | . | . | |
| 20.64 | 0.4367 | 0.14 | | | |
| Q | . | . | . | . | |
| 20.73 | 0.4377 | 0.14 | | | |
| Q | . | . | . | . | |
| 20.82 | 0.4386 | 0.13 | | | |
| Q | . | . | . | . | |
| 20.90 | 0.4396 | 0.13 | | | |
| Q | . | . | . | . | |
| 20.99 | 0.4405 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.07 | 0.4415 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.16 | 0.4424 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.25 | 0.4433 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.33 | 0.4442 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.42 | 0.4451 | 0.13 | | | |
| Q | . | . | . | . | |
| 21.50 | 0.4460 | 0.12 | | | |
| Q | . | . | . | . | |
| 21.59 | 0.4469 | 0.12 | | | |
| Q | . | . | . | . | |
| 21.68 | 0.4478 | 0.12 | | | |
| Q | . | . | . | . | |
| 21.76 | 0.4486 | 0.12 | | | |
| Q | . | . | . | . | |
| 21.85 | 0.4495 | 0.12 | | | |
| Q | . | . | . | . | |
| 21.93 | 0.4503 | 0.12 | | | |
| Q | . | . | . | . | |
| 22.02 | 0.4512 | 0.12 | | | |
| Q | . | . | . | . | |
| 22.11 | 0.4520 | 0.12 | | | |
| Q | . | . | . | . | |
| 22.19 | 0.4528 | 0.12 | | | |
| Q | . | . | . | . | |
| 22.28 | 0.4537 | 0.12 | | | |
| Q | . | . | . | . | |
| 22.36 | 0.4545 | 0.11 | | | |
| Q | . | . | . | . | |
| 22.45 | 0.4553 | 0.11 | | | |
| Q | . | . | . | . | |
| 22.54 | 0.4561 | 0.11 | | | |
| Q | . | . | . | . | |
| 22.62 | 0.4569 | 0.11 | | | |
| Q | . | . | . | . | |
| 22.71 | 0.4577 | 0.11 | | | |

```
Q         .         .         .         .
  22.79      0.4585      0.11
Q         .         .         .         .
  22.88      0.4592      0.11
Q         .         .         .         .
  22.97      0.4600      0.11
Q         .         .         .         .
  23.05      0.4608      0.11
Q         .         .         .         .
  23.14      0.4615      0.11
Q         .         .         .         .
  23.22      0.4623      0.11
Q         .         .         .         .
  23.31      0.4631      0.11
Q         .         .         .         .
  23.40      0.4638      0.10
Q         .         .         .         .
  23.48      0.4645      0.10
Q         .         .         .         .
  23.57      0.4653      0.10
Q         .         .         .         .
  23.65      0.4660      0.10
Q         .         .         .         .
  23.74      0.4667      0.10
Q         .         .         .         .
  23.83      0.4675      0.10
Q         .         .         .         .
  23.91      0.4682      0.10
Q         .         .         .         .
  24.00      0.4689      0.10
Q         .         .         .         .
  24.08      0.4696      0.10
Q         .         .         .         .
  24.17      0.4700      0.00
Q         .         .         .         .
 ------------------------------------------------------------------
-------------
------------------------------------------------------------------
----------------
    TIME DURATION(minutes) OF PERCENTILES OF ESTIMATED PEAK FLOW
RATE:
    (Note: 100% of Peak Flow Rate estimate assumed to have
    an instantaneous time duration)
```

| Percentile of Estimated Peak Flow Rate | Duration (minutes) |
|---|---|
| 0% | 1444.8 |
| 10% | 144.5 |
| 20% | 31.0 |
| 30% | 15.5 |
| 40% | 5.2 |
| 50% | 5.2 |
| 60% | 5.2 |

| | |
|---|---|
| 70% | 5.2 |
| 80% | 5.2 |
| 90% | 5.2 |

SiteAssist™
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR APP

# MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT

## SANTA ANA - CA

## SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

## IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

## NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

**USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.**

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

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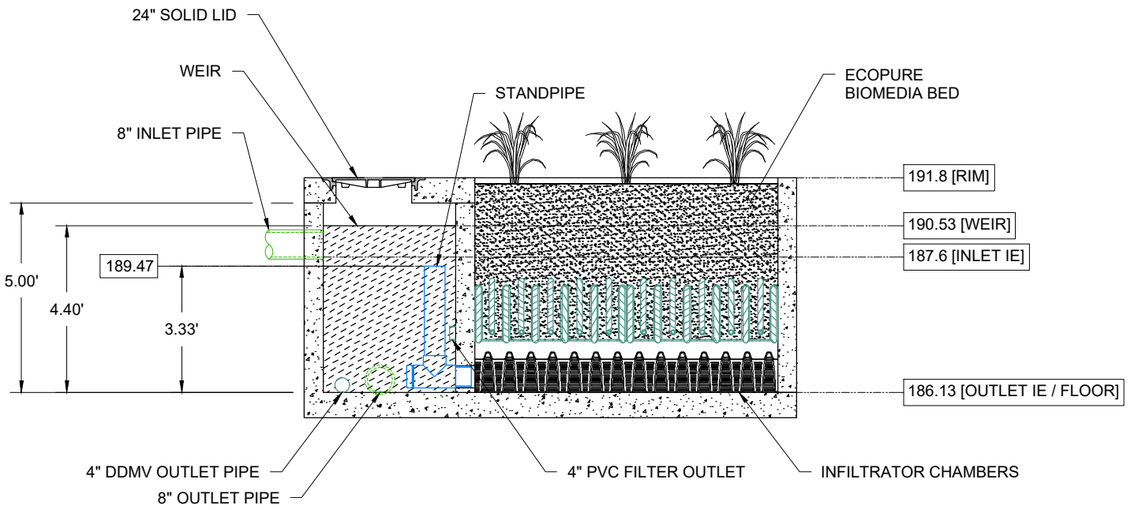
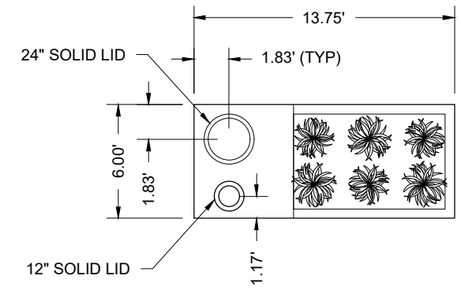
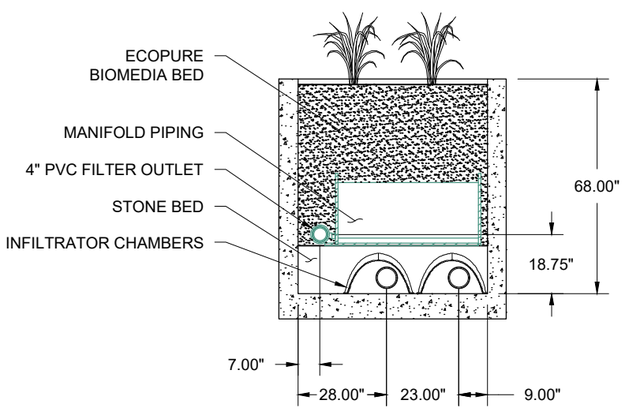


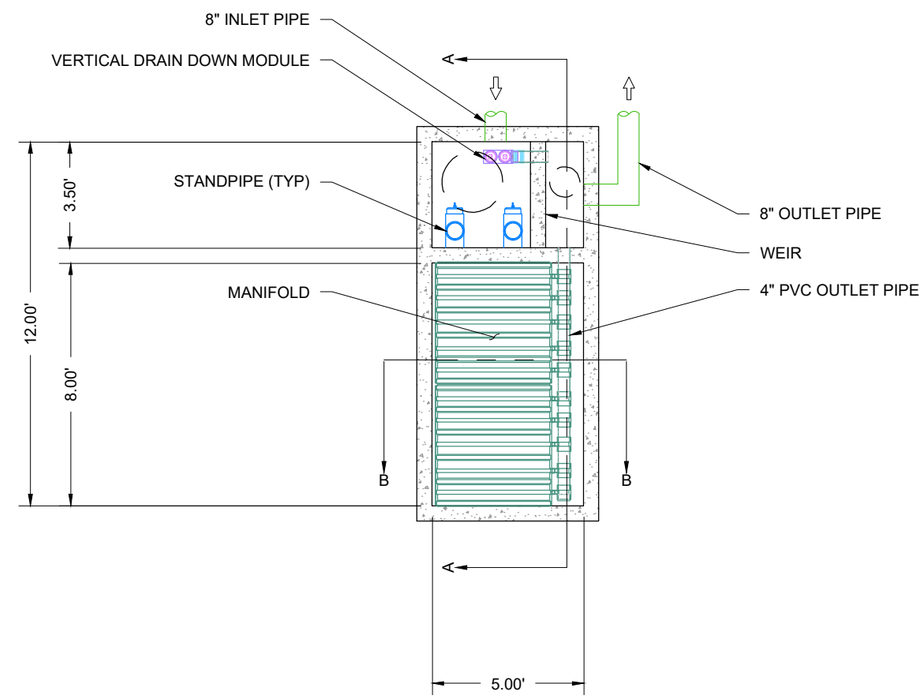

## SECTION A-A
NTS




## TOP SLAB PLAN VIEW
NTS / PIPE CONNECTIONS NOT SHOWN




## SECTION B-B
NTS




## PLAN VIEW
NTS

| ECOPURE BIOFILTER 120 | |
|---|---|
| WATER QUALITY FLOW RATE | 0.27 CFS |
| EFFECTIVE LOADING RATE | 1 GPM/SF |
| DRAINAGE AREA | |
| TREATED SEDIMENT CAPACITY | |

THE ECOPURE BIOFILTER™ IS A BIOFILTRATION STORMWATER TREATMENT TECHONOLOGY RELIES ON PHYSICAL, CHEMICAL AND BIOLOGICAL MECHANISMS TO REMOVE TOTAL SUSPENDED SOLIDS, TOTAL PHOSPHORUS, TOTAL NITROGEN, HEAVY METALS, OIL and GREASE, TRASH AND BACTERIA. THE ECOPURE SYSTEM PROVIDES LINEAR TREATMENT DESIGN WITH AN UPFRONT PRETREATMENT CHAMBER.

MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|

**EcoPure™ Biofilter**
Stormwater Media Filters

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

NOT TO SCALE

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER SHALL REVIEW THIS DRAWING PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

## PROPOSED LAYOUT

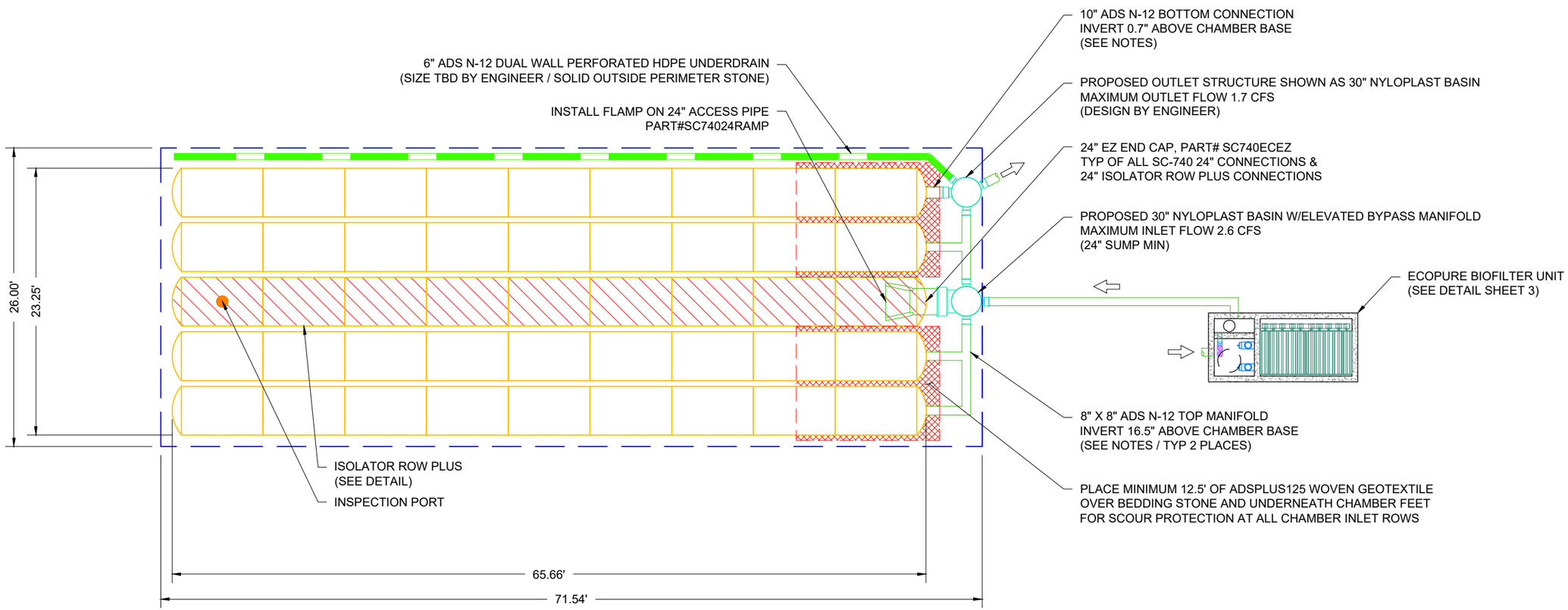
| | |
|---|---|
| 45 | STORMTECH SC-740 CHAMBERS |
| 10 | STORMTECH SC-740 END CAPS |
| 6 | STONE ABOVE (in) |
| 6 | STONE BELOW (in) |
| 40 | % STONE VOID |
| **3,845** | **INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)** |
| 1860 | SYSTEM AREA (ft²) |
| 195 | SYSTEM PERIMETER (ft) |

## PROPOSED ELEVATIONS

| | |
|---|---|
| 196.57 | MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED) |
| 190.57 | MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC) |
| 190.07 | MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT) |
| 190.07 | MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT) |
| 189.07 | TOP OF STONE |
| 188.57 | TOP OF SC-740 CHAMBER |
| 187.45 | 8" TOP MANIFOLD INVERT |
| 186.13 | 10" BOTTOM MANIFOLD INVERT |
| 186.08 | 24" ISOLATOR ROW PLUS CONNECTION INVERT |
| 186.07 | BOTTOM OF SC-740 CHAMBER |
| 185.57 | UNDERDRAIN INVERT |
| 185.57 | BOTTOM OF STONE |

## NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.




MCDONALD'S 4-5088 PROPOSED
DRIVE-THRU RESTAURANT
SANTA ANA - CA

DATE: 04/17/23 DRAWN: JLM
PROJECT #: S349547 CHECKED: KLJ/PR

| DATE | DRWN | CHKD | DESCRIPTION |
|---|---|---|---|

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4640 TRUEMAN BLVD
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0 10' 20'

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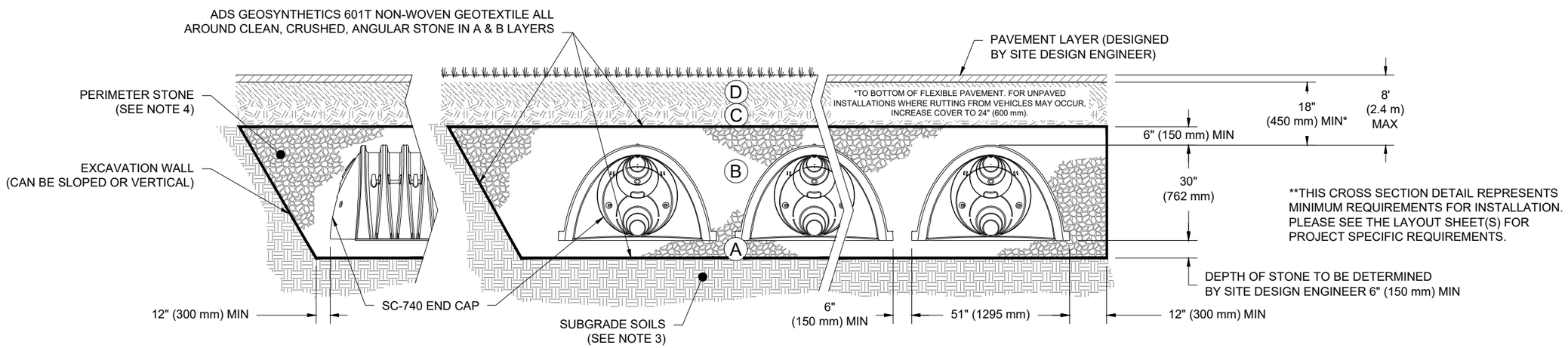
# ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|---|---|---|---|---|
| D | **FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS. | N/A | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| C | **INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.<br><br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145[1]<br>A-1, A-2-4, A-3<br><br>OR<br><br>AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| B | **EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| A | **FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. | CLEAN, CRUSHED, ANGULAR STONE | AASHTO M43[1]<br>3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3] |

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.




## NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

MCDONALD'S 4-5088 PROPOSED DRIVE-THRU RESTAURANT
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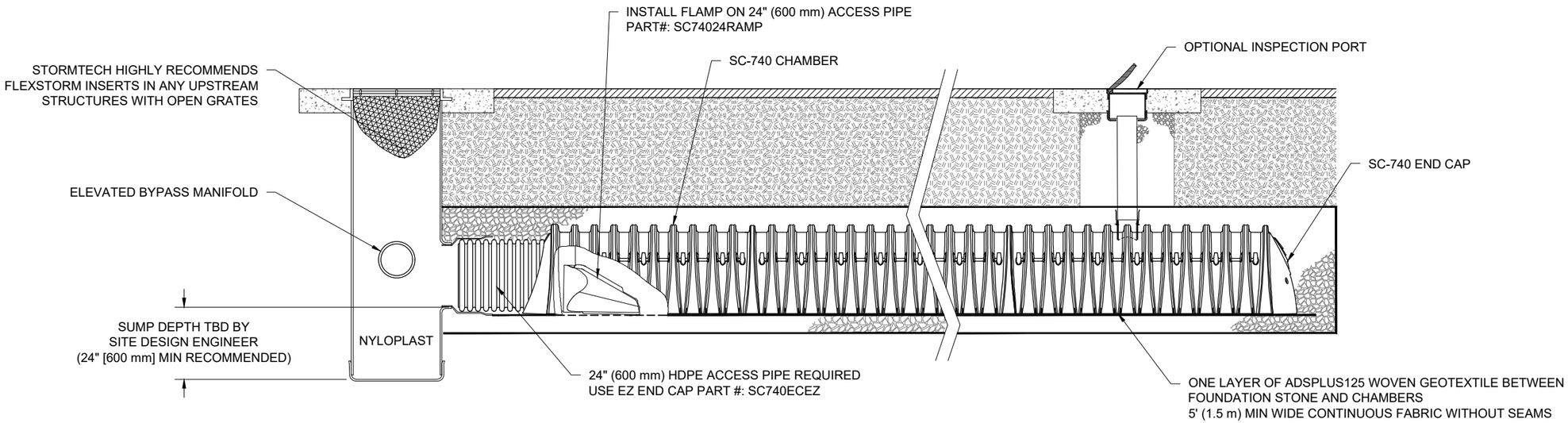



**SC-740 ISOLATOR ROW PLUS DETAIL**
NTS

## INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

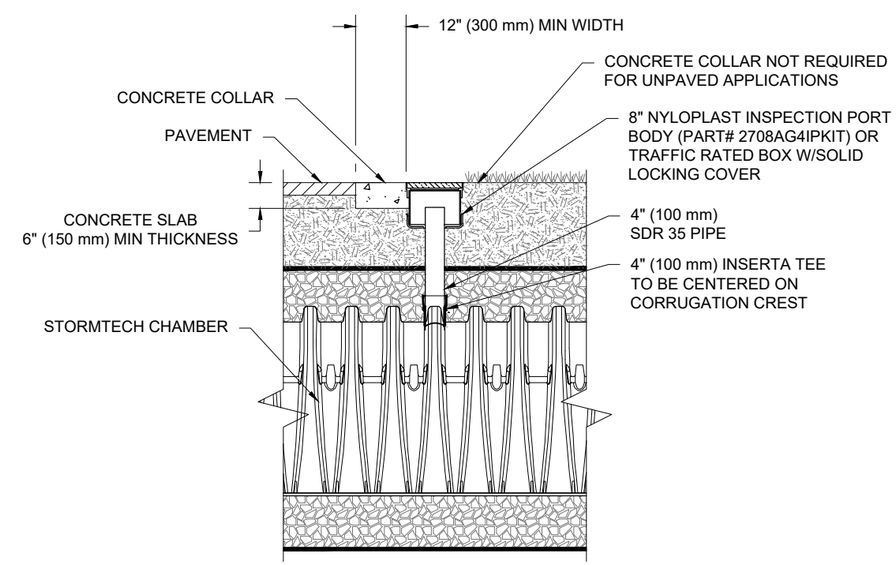
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

## NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.




NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION CREST.

**4" PVC INSPECTION PORT DETAIL**
**(SC SERIES CHAMBER)**
NTS

MCDONALD'S 4-5088 PROPOSED
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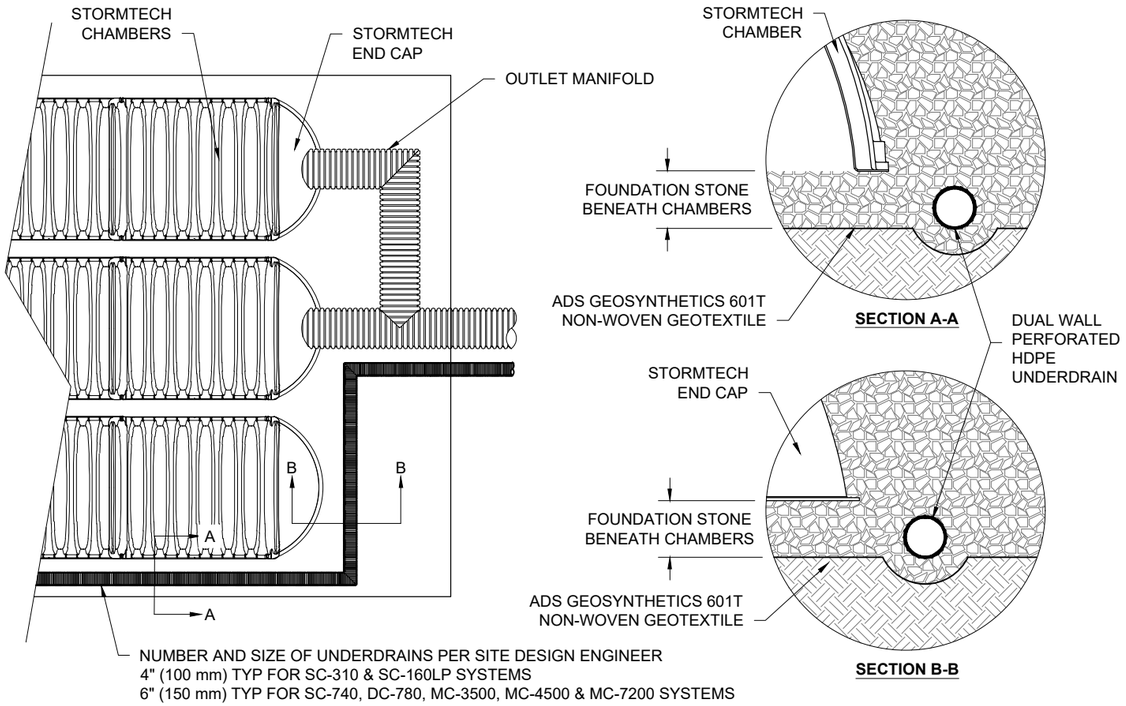
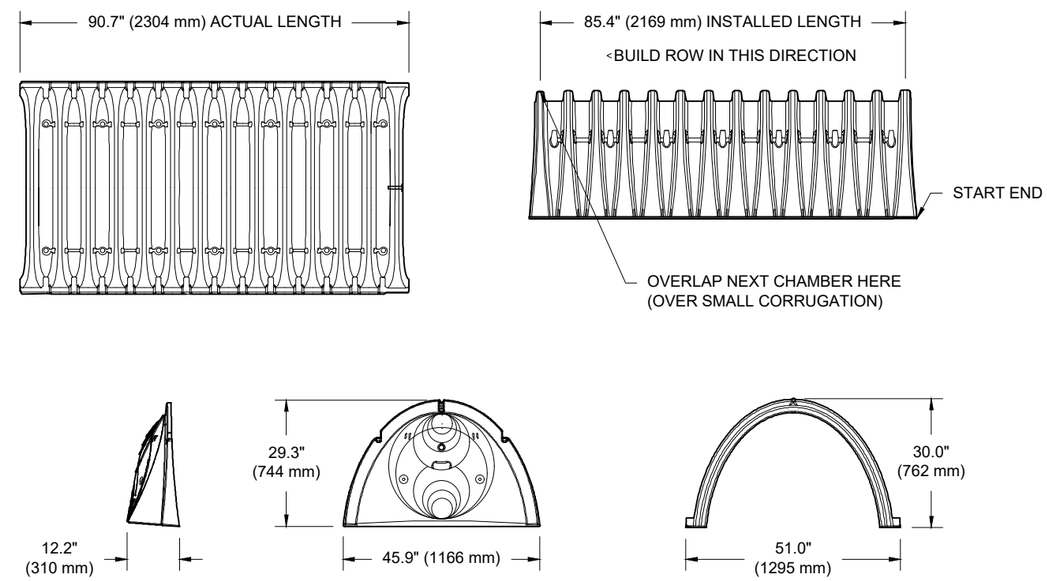
## UNDERDRAIN DETAIL

NTS




## SC-740 TECHNICAL SPECIFICATION

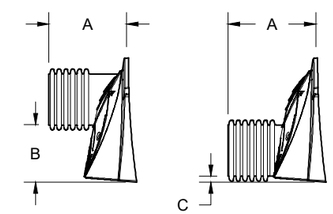
NTS




**NOMINAL CHAMBER SPECIFICATIONS**

| | | |
|---|---|---|
| SIZE (W X H X INSTALLED LENGTH) | 51.0" X 30.0" X 85.4" | (1295 mm X 762 mm X 2169 mm) |
| CHAMBER STORAGE | 45.9 CUBIC FEET | (1.30 m³) |
| MINIMUM INSTALLED STORAGE* | 74.9 CUBIC FEET | (2.12 m³) |
| WEIGHT | 75.0 lbs. | (33.6 kg) |

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS




PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

| PART # | STUB | A | B | C |
|---|---|---|---|---|
| SC740EPE06T / SC740EPE06TPC | 6" (150 mm) | 10.9" (277 mm) | 18.5" (470 mm) | --- |
| SC740EPE06B / SC740EPE06BPC | | | --- | 0.5" (13 mm) |
| SC740EPE08T /SC740EPE08TPC | 8" (200 mm) | 12.2" (310 mm) | 16.5" (419 mm) | --- |
| SC740EPE08B / SC740EPE08BPC | | | --- | 0.6" (15 mm) |
| SC740EPE10T / SC740EPE10TPC | 10" (250 mm) | 13.4" (340 mm) | 14.5" (368 mm) | --- |
| SC740EPE10B / SC740EPE10BPC | | | --- | 0.7" (18 mm) |
| SC740EPE12T / SC740EPE12TPC | 12" (300 mm) | 14.7" (373 mm) | 12.5" (318 mm) | --- |
| SC740EPE12B / SC740EPE12BPC | | | --- | 1.2" (30 mm) |
| SC740EPE15T / SC740EPE15TPC | 15" (375 mm) | 18.4" (467 mm) | 9.0" (229 mm) | --- |
| SC740EPE15B / SC740EPE15BPC | | | --- | 1.3" (33 mm) |
| SC740EPE18T / SC740EPE18TPC | 18" (450 mm) | 19.7" (500 mm) | 5.0" (127 mm) | --- |
| SC740EPE18B / SC740EPE18BPC | | | --- | 1.6" (41 mm) |
| SC740ECEZ* | 24" (600 mm) | 18.5" (470 mm) | --- | 0.1" (3 mm) |

ALL STUBS, EXCEPT FOR THE SC740ECEZ ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740ECEZ THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

MCDONALD'S 4-5088 PROPOSED
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June 29, 2023

Antoinette Jungers, EIT
Civil Analyst
Kimley-Horn and Associates

RE: McDonalds 4-5088 (Santa Ana)
TAPE Approval and Orange County Public Works Approval

Ms. Jungers,

ADS EcoPure BioFilter has undergone rigorous testing from Washington Department of Ecology (WaDOE), and has been reviewed and certified under the Technology Assessment Protocol – Ecology, better known as the TAPE program.

TAPE certification in Orange County and other regions of Southern California is the industry standard per the Orange County Technical Guidance Document and other storm water quality manuals. See attached for the TAPE assessment report for ADS EcoPure BioFilter

Please don't hesitate to contact an ADS representative with any questions or comments.
Regards,
Terence Zhao

Engineered Products Manager
Advanced Drainage Systems, Inc.
Mobile: (626) 425 – 2874
Email: Terence.zhao@adspipe.com

WASHINGTON STATE DEPARTMENT OF ECOLOGY

**January 2023**

# GENERAL USE LEVEL DESIGNATION FOR BASIC (TSS) AND PHOSPHORUS TREATMENT

**For**

## Advanced Drainage Systems Inc.
## EcoPure BioFilter™ 2-Cell

### Ecology's Decision

Based on the Advanced Drainage Systems Inc. (ADS) application submission for the EcoPure BioFilter™ 2-Cell (EcoPure 2-Cell), Ecology hereby issues the following use level designation:

1) General Use Level Designation (CULD) for Basic and Phosphorus Treatment:
   - Sized at a hydraulic loading rate of 1.0 gallon per minute (gpm) per square foot (sq ft) of exit manifold area (in the second cell).
2) Ecology approves the EcoPure 2-Cell at the hydraulic loading rate listed above, to achieve the maximum water quality design flow rate. The water quality design flow rates are calculated using the following procedures:
   - Western Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using the latest version of the Western Washington Hydrology Model or other Ecology- approved continuous runoff model.
   - Eastern Washington: For treatment installed upstream of detention or retention, the water quality design flow rate is the peak 15-minute flow rate as calculated using one of the three methods described in Chapter 2.7.6 of the 2019 Stormwater Management Manual for Eastern Washington (SWMMEW) or local manual.
   - Entire State: For treatment installed downstream of detention, the water quality design flow rate is the full 2-year release rate of the detention facility.
3) The GULD has no expiration date but may be amended or revoked by Ecology and is subject to the conditions specified below.

**Ecology's Conditions of Use**

The EcoPure 2-Cell shall comply with these conditions:

1) Applicants shall design, assemble, install, operate, and maintain the EcoPure 2-Cell in accordance with ADS applicable manuals and the Ecology Decision.
2) EcoPure 2-Cell media shall conform to the specifications submitted to and approved by Ecology.
3) Maintenance: The required inspection/maintenance interval for stormwater treatment devices is often dependent on the efficiency of the device and the degree of pollutant loading from a particular drainage basin. Therefore, Ecology does not endorse or recommend a "one size fits all" maintenance cycle for a particular model/size of manufactured filter treatment device.
    - ADS designed their product for a target maintenance interval of 12 months, depending on site conditions. Typical maintenance includes visual inspection of the plant surface area, structure inlet, settling cell, and clean-out ports.
    - An EcoPure 2-cell tested at Lake Union Ship Canal Test Facility in Seattle, WA was on average able to treat 8.9% of a water year before needing maintenance. Monitoring personnel observed similar maintenance issues with other systems evaluated at the Test Facility. The runoff from the Test Facility may not be indicative of maintenance requirements for all sites.
    - Owners/operators must inspect EcoPure 2-Cell systems for a minimum of twelve months from the start of post-construction operation to determine site-specific inspection/maintenance schedules and requirements. Owners/operators must conduct inspections monthly during the wet season, and every other month during the dry season (According to the SWMMWW, the wet season in western Washington is October 1 to April 30. According to the SWMMEW, the wet season in eastern Washington is October 1 to June 30.) After the first year of operation, owners/operators must conduct inspections based on the findings during the first year of inspections.
    - Conduct inspections by a qualified personnel, follow manufacturer's guidelines, and use methods capable of determining either a decrease in treated effluent flow rate and/or a decrease in pollutant removal ability.
4) Install the EcoPure 2-Cell in such a manner that the system bypasses flows exceeding the maximum operating rate and does not resuspend captured sediment.
5) Discharges from the EcoPure 2-Cell shall not cause or contribute to water quality standard violations in receiving waters.

| | |
|---|---|
| **Applicant:** | Advanced Drainage Systems Inc. |
| **Applicant's Address:** | 4640 Trueman Blvd<br>Hilliard, OH 43065 |

**Application Documents:**

*Technology Evaluation Report EcoPure BioFilter™ System Performance Verification Project,* Prepared for Advanced Drainage Systems, Inc., Prepared by Herrera Environmental Consultants, Inc., January 2023

*Application for Conditional Use Level Designation, EcoPure BioFilter™ System Performance Verification Project,* Prepared for Advanced Drainage Systems, Inc., Prepared by Herrera Environmental Consultants, Inc., April 2022

*EcoPure BioFilter™ Metals Removal Version, Emerging Stormwater Treatment Technologies, Initial Application for Certification,* Advanced Drainage Systems, Inc., July 2020

*NJCAT Technology Verification, EcoPure BioFilter™,* Advanced Drainage Systems, Inc., June 2020

*Draft Report: NJCAT Technology Verification, EcoPure BioFilter™ 3-Cell,* Advanced Drainage Systems, Inc., July 2020

*WADOE Application EcoPure Supplemental Information*, BaySaver Technologies, July 2020

**Applicant's Use Level Request:**

- General Use Level Designation as a Basic and Phosphorus Treatment device in accordance with Ecology's *Stormwater Management Manual for Western Washington*

**Applicant's Performance Claims:**

- Based on field and laboratory testing at a hydraulic loading rate of 1.0 gpm/sq ft the EcoPure BioFilter™ 2-Cell is able to meet TAPE performance goals for TSS and phosphorus.

**Ecology's Recommendations:**

Ecology finds that:

- ADS has shown Ecology, through laboratory and field testing, that the EcoPure BioFilter™ 2-cell is capable of attaining Ecology's Basic and Total Phosphorus treatment goals.

**Findings of Fact:**

Field Testing (2-Cell System)

- Herrera Environmental Consultants, Inc. conducted monitoring of the EcoPure 2-Cell at the Lake Union Ship Canal Test Facility in Seattle Washington between December 2020 and April 2022. Herrera collected flow-weighted composite samples during 22 separate storm events. The system was sized at a hydraulic loading rate 1.0 gpm/sq ft.
    - The average D50 of the influent PSD was 43 microns.
    - Influent TSS concentrations met the TAPE range for 17 of the storm events. For these events concentrations ranged from 21 mg/L to 75 mg/L with a mean concentration of 47 mg/L. The bootstrap estimate of the upper 95 percent confidence limit (UCL95) of the mean TSS effluent concentration was 7.6 mg/L.
    - Total phosphorus from 10 storm events met the TAPE influent concentration range and sample requirements. An additional 8 samples had influent concentrations below the TAPE range, but were included as allowed by the TAPE guidelines. The influent concentrations from these 18 events ranged from 0.064 mg/L to 0.209 mg/L with a mean concentration of 0.120 mg/L. The bootstrap estimate of the lower 95 percent confidence limit (LCL95) of the mean total phosphorus reduction was 68.9 percent.
    - Dissolved copper influent concentrations from the 18 storm events met the TAPE range and sample requirements. For these events influent concentrations ranged from 7.36 µg/L to 16.5 µg/L with a mean concentration of 10.41 µg/L. The bootstrap estimate of the lower 95 percent confidence limit (LCL95) of the mean dissolved copper reduction was 26.7 percent.
    - Dissolved zinc influent concentrations from the 19 storm events met the TAPE range and sample requirements. For these events influent concentrations ranged from 21.8 µg/L to 48.7 µg/L with a mean concentration of 29.8 µg/L. The bootstrap estimate of the lower 95 percent confidence limit (LCL95) of the mean dissolved zinc reduction was 61.4 percent.
    - The system experienced rapid sediment loading and needed to be maintained 5 times during the monitoring period: after 19.6 percent of a water year, 5.0 percent of a water year, 2.5 percent of a water year, 17.3 percent of a water year, and 4.5 percent of a water year.. Monitoring personnel observed similar sediment loading issues with other systems evaluated at the Test Facility. The runoff from the Test Facility may not be indicative of maintenance requirements for all sites.

Laboratory Testing (2-Cell System)

- ADS conducted laboratory testing on an EcoPure BioFilter™ 2-Cell system in December 2019 and January 2020 at their laboratory in Mount Airy, Maryland. The testing was done following the New Jersey Department of Environmental Protection Laboratory Protocol for Filtration MTDs. Since ADS carried out the testing in-house, ADS contracted with Boggs Environmental Consultants to provide third party oversight.
- The testing evaluated the TSS removal capability of a full-scale, commercially available 4’x8’ EcoPure BioFilter™ 2-cell system. The 2-cells include a Pretreatment Gravitational and Trash-removal Cell followed by a Biofiltration cell. The Biofiltration Cell of a 4’x8’ system contains 60 square feet of effective filtration treatment area and

has a hydraulic loading rate of 1 gpm per square foot, resulting in a 60 gpm design flow rate.

- The test sediment used was a custom blend of commercially available silica sands and had an average d50 of 61 µm.
- ADS evaluated TSS removal efficiency over 26 events. The influent concentration ranged from 187 to 214 mg/L with a mean concentration of 200.7 mg/L and a mean removal efficiency of 88.0%.

**Other EcoPure BioFilter™ 2-Cell Related Issues to be Addressed by the Company:**

1. Conduct hydraulic testing to obtain information about maintenance requirements on a site with runoff that is more typical of the Pacific Northwest.

**Technology Description:** https://www.adspipe.com/water-management-solutions/water-quality/greeninfrastructure/ecopure-biofilter

**Contact Information:**

Applicant:

Joe Chylik
Advanced Drainage Systems Inc
4640 Trueman Blvd
Hilliard, OH 43065
866-405-9293
joseph.chylik@adspipe.com

Applicant website: www.adspipe.com

Ecology web link: https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Stormwater-permittee-guidance-resources/Emerging-stormwater-treatment-technologies

Ecology:

Douglas C. Howie, P.E.
Department of Ecology
Water Quality Program
(360) 870-0983
douglas.howie@ecy.wa.gov

**Revision History**

| Date | Revision |
|---|---|
| September 2020 | PULD Granted |
| May 2022 | CULD Granted |
| January 2023 | GULD Granted |

## PACKAGED STORM WATER LIFT STATION

### McDONALD'S - 2109 E. SANTA CLARA AVE - SANTA ANA, CA

**SCOPE OF SUPPLY:**
Furnish and install complete pre-packaged duplex sewage Lift Station model **#PSI-KIM041923** as manufactured by Pacific Southwest Industries (national phone # 800-358-9095)

This pre-packaged Lift Station shall incorporate a quick removal system manufactured by the pump manufacturer. The pump(s) shall be guided to the discharge base elbow by a single or double guide rail and shall be stainless steel and shall extend from the discharge base elbow to the upper guide bracket mounted on 1-5/8" x 1-5/8" channel strut just below the basin cover. Stainless steel lifting chain or cable shall be supplied and properly installed to remove the pump from the wet well. The internal discharge piping shall be completely pre-plumbed with pressure rated schedule 40 or 80 PVC pipe as indicated and extend 12" beyond the wet well and valve vault side wall for contractor connection to the force main piping. The pump(s) discharge piping shall have a check and ball valve installed on each pump discharge. The lift station shall also include a control panel and floats.

**PUMP(S):**

The pump furnished for this application shall be model 3LEV03 as manufactured by Liberty Pumps and shall be capable of handling residential and commercial sewage up to 3" solids.

**CONSTRUCTION:**

Each centrifugal pump shall be equal to the Certified 3LEV03-Series pumps as manufactured by Liberty Pumps, Bergen NY. The casting enclosing the motor shall be constructed of class 30 cast iron. The complete motor enclosure shall be designed and manufactured to meet stringent hazardous location guidelines with performance verified via flame propagation and hydrostatic testing. The motor housing shall be oil-filled to dissipate heat. Air-filled motors shall not be considered equal since they do not properly dissipate heat from the motor. Mating parts shall be machined and sealed with a Buna-N O-ring. All fasteners exposed to the process fluid shall be stainless steel. The motor shall be protected on the top side with a sealed cast iron cord entry plate, which is potted to prevent water from entering through the cord. The motor shall be protected on the lower side with a dual mechanical seal arrangement and an oil-filled intermediate chamber. The upper seal shall be a unitized mechanical seal with silicon carbide faces. The lower seal shall be a two-piece mechanical seal with silicon carbide faces. The upper and lower bearings shall be sized to properly withstand radial and thrust loads produced throughout the full operating range of the pump.

**POWER CABLE:**

The submersible pump shall be supplied with 25, 35, or 50 feet of a multi-conductor cord of type SOOW. These type SOOW power cords carry a voltage rating of 600 V, a temperature rating of 90°C, have oil-resistant insulation, are water- and weather-resistant, UL listed, and CSA approved. The power cord shall be sized for the rated full load amps of the pump for continuous duty in accordance with the NEC®. A separate type SOOW control cord of equal length shall also exit the pump. The cord entries to the pump shall be protected via two sealing methods. The cords first pass through a Buna-N compression grommet that seals against the outer jacket of the cable. The Buna-N grommet also doubles as a strain relief. Each individual conductor then continues into a chamber that is filled with epoxy potting compound. The epoxy potting compound seals each individual conductor and protects against any intrusion of liquid into the motor cavity in the event of wicking.

**MOTOR:**

The motor shall be oil-filled, Class F insulated, and rated for continuous duty. Since air-filled motors are not capable of dissipating heat efficiently, they shall not be considered equal. Pumps requiring an auxiliary cooling means shall not be considered equal. The copper stator windings shall be insulated with moisture-resistant Class F insulation materials, rated for 155°C. The maximum continuous temperature of pumped liquids shall be 40°C. The winding operating temperature at rated horsepower shall be a maximum of 140°C @ 40°C ambient. Motor shall have thermal protector on 1-phase model 3LEV032 to cut power to motor in thermal overheat conditions.

**BEARINGS AND SHAFT:**

The shaft shall be supported by two ball bearings. The top bearing shall be a radial contact ball bearing and the lower bearing shall be an angular contact ball bearing designed to handle the radial and axial forces incurred by pumping/grinding. The lower bearing shall be positively retained by a threaded bearing retaining nut, which eliminates any axial movement or rotation of the outer bearing race. Both bearings shall be permanently lubricated by the oil that fills the motor housing. Pump designs requiring scheduled bearing maintenance shall not be considered equal. Pumps with single row lower bearings or sleeve bearings shall not be considered equal. The bearing system shall be sized to provide a minimum of 100,000 hours B10 bearing life throughout the operating range of the pump. Pumps that only provide a 50,000 hour B10 bearing life shall not be considered equal. The motor shaft shall be made of 303 stainless steel. The shaft shall be designed to withstand the maximum torque and radial loads present during start-up and normal operation. Shafts of carbon steel or chrome-plated shafts shall not be considered equal.

**SEALS:**

The pump shall have one shaft seal. Seal shall include stainless steel housings and Buna elastomers.

**IMPELLER:**
The impeller shall be ASTM class 30 cast iron, with optional silicon bronze material available. A vortex impeller design provides an efficient path through the impeller for solids to pass without getting caught or snagged. Impeller shrouds are designed to operate in close proximity to the pump volute casing to prevent solids from entering the seal area or recirculating back to the intake. The impeller shall be keyed and bolted onto the motor shaft.

**QUICK REMOVAL SYSTEM:**

The pumping unit(s) shall be equipped with quick removal system (QRS). The construction shall be such that the pump(s) will automatically connect to the discharge piping when lowered into place on the discharge connector. There shall be no need for personnel to enter the wet well to accomplish installation or removal of the pump(s). The pumping unit(s) shall be fitted with stainless steel lifting chain(s) of sufficient length and strength to permit the raising and lowering of the unit(s). The chain(s) shall be fastened at the top of the structure near the access opening. A sliding guide bracket shall be an integral part of the pumping unit and the pump casing shall have a machined connection with a bracket to connect with the discharge connection. Sealing of the pumping unit to the discharge connection shall be accomplished by a single linear downward motion of the pump with the entire weight of the pumping unit guided by a pawl, thereby wedging the pumping unit tightly against the discharge connector. No portion of the pump shall bear directly on the floor of the sump nor shall a rotary motion of the pump be required for sealing. All fasteners coming into contact with the pumpage shall be stainless steel. Two corrosion resistant guide pipes shall be furnished and installed for each pump to permit raising and lowering of the pump. Guide pipes shall be 1.25" inch (33 mm) in diameter and shall be of adequate length to extend from the lower guide holder to the upper guide bar bracket(s) mounted on the access frame.

**FIBERGLASS WET WELL:**

The fiberglass wet well with an anti-flotation flange shall have the proper diameter and depth below the lowest inlet to promote proper cycling while maintaining the rim at grade. The fiberglass wet well shall be manufactured using a process that is filament wound and or chopped spray. The wet well shall be constructed with a anti flotation flange. Lifting lugs shall be required for those wet wells 48 inches in diameter and larger for setting of the wet well. The laminate shall have a Barco hardness of at least 90% of the resin manufactures minimum specified hardness for cured resin on both the interior and exterior surfaces. The minimum wall thickness of the wet well shall not be less than 1/4". Stainless steel studs will be encapsulated in the bottom of the wet well to allow the mounting of the quick removal system. The top rim flange will be a minimum of 2" wide to allow for the installation of the pedestrian rated aluminum cover to the rim flange or shall be rimless if the cover is specified for H20 off street locations. The wet well shall be provided with "unseal" fittings that can be installed in the field to insure proper elevation of the inlet, vent, and electrical on the side of the wet well. The wet well will house 2 - swing check valves, and 2 – shut off valves.

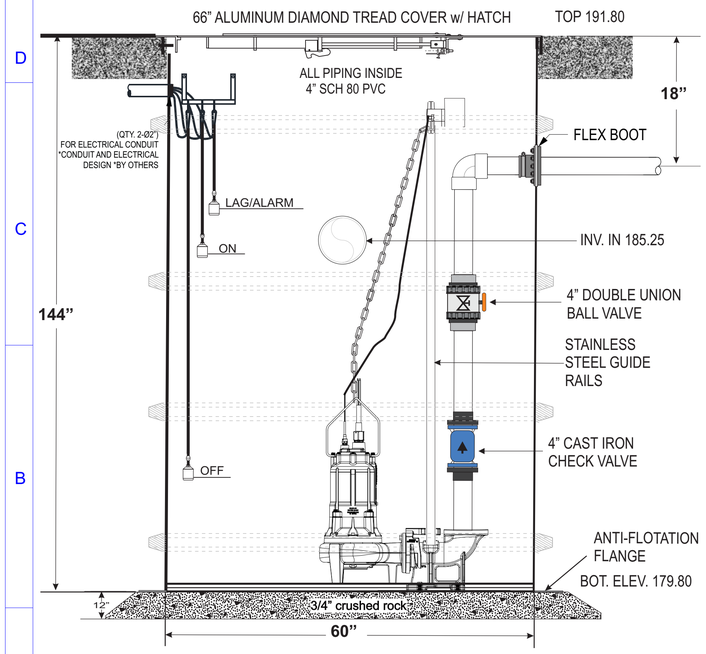
**COVER(s)**

The wet well cover shall always be gasketed and bolted to the rim flange of the fiber glass tank using 7/16" stainless steel hex head bolts unless the cover is to be in a H20 off street location. The type of material to be used for the cover shall be as indicated on this plan sheet.

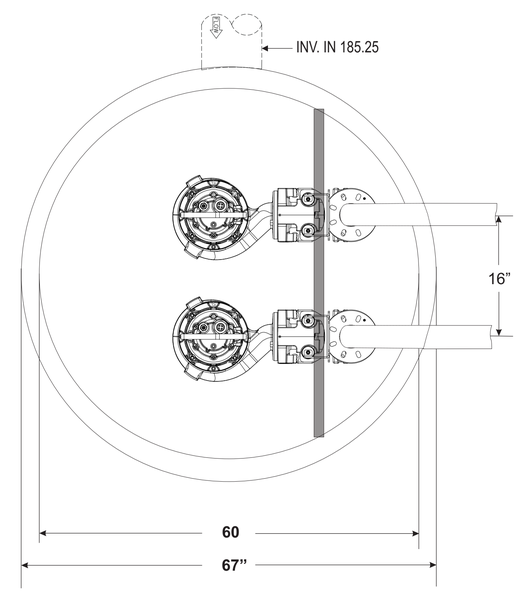
**DUPLEX ALTERNATING CONTROL PANEL:**

The duplex control panel, as a minimum, shall include the appropriate enclosure type for the environment it is to be installed in and should include the following: Motor starters, motor circuit protectors or variable frequency drives (VFD), pump run indicator light(s), operation selector switch(es), high water alarm and light, silence switch, dry contact for alarm, numbered terminals for all incoming power, pump motor(s) and level controls. The control panel shall be UL listed 508 or 913.

ELEVATION VIEW
NOT TO SCALE




PLAN VIEW
NOT TO SCALE




| FLOAT ELEVATIONS | |
|---|---|
| LAG/ALARM | 185.25 |
| ON | 184.25 |
| OFF | 181.00 |

PSI Pacific Southwest Industries
ENGINEERED- PUMPS/FLUID HANDLING & DISPOSAL SYSTEMS
DUPLEX
PACKAGED LIFT STATION
(800)-358-9095

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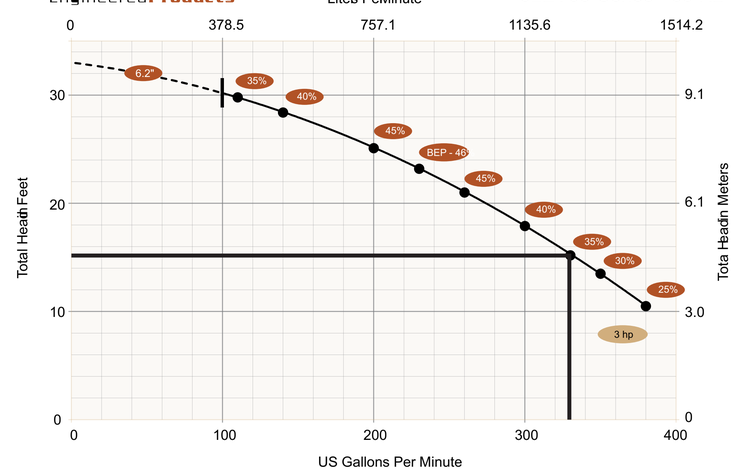
Liberty Pumps
EngineeredProducts

## Performance Curve

3LEV03-Series - 60 Hz




| HAZEN-WILLIAMS EQUATION/HEAD LOSS IN WATER PIPE | |
|---|---|
| (f) = 0.2083 (100 / c)$^{1.852}$ q$^{1.852}$ / dh$^{4.8655}$ | |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 4" SCH 80 = 3.83 |
| 4" FRICTION LOSS PER 100 FT = | 7.50 |
| c= | 140 HDPE / PVC |
| q= | 330 GPM |
| dh= | 6" SCH 80 = 5.76 |
| 6" FRICTION LOSS PER 100 FT = | 1.03 |
| Velocity (ft/s) | 4.07 |

| STORM LIFT STATION PROFILE & CALCULATIONS | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 4" SCH 40 = 4.03 SCH 80 = 3.83 | | | | | | | | |
| 4" PVC PIPE | | (QTY) | 12 | x | 1 | FT | | 12 FT |
| 4" PVC 90 ELBOW | | (QTY) | 1 | x | 11 | FT | | 11 FT |
| 4" PVC 45 BEND | | (QTY) | 0 | x | 5 | FT | | 0 FT |
| 4" PVC TEE | | (QTY) | 0 | x | 21 | FT | | 0 FT |
| 4" BALL VALVE | | (QTY) | 1 | x | 2.7 | FT | | 2.7 FT |
| 4" CHECK VALVE | | (QTY) | 1 | x | 22 | FT | | 22 FT |
| TOTAL EQUIVALENT LENGTH | | | | | | | | 47.7 FT |
| FRICTION LOSS PER 100 FT 4" PVC | | 330 GPM | 7.50 | FT | | PER 100 FT | | |
| FRICTION LOSS 4" | 47.7 | / | 100 | x | 7.50 | FT | | 3.58 FT |
| 6" SCH 40 = 6.06 SCH 80 = 5.76 | | | | | | | | |
| 6" PVC PIPE | | (QTY) | 20 | x | 1 | FT | | 20 FT |
| 6" PVC 90 ELBOW | | (QTY) | 1 | x | 16 | FT | | 16 FT |
| 6" PVC 45 BEND | | (QTY) | 0 | x | 7.7 | FT | | 0 FT |
| 6" PVC TEE | | (QTY) | 0 | x | 33 | FT | | 0 FT |
| TOTAL EQUIVALENT LENGTH | | | | | | | | 36 FT |
| FRICTION LOSS PER 100 FT 6" PVC | | 330 GPM | 1.03 | FT | | PER 100 FT | | |
| FRICTION LOSS 6" | 36 | / | 100 | x | 1.03 | FT | | 0.37 FT |
| TOTAL DYNAMIC HEAD | | | | | | | | |
| 4" FRICTION LOSS | | | | | | | | 3.58 FT |
| 6" FRICTION LOSS | | | | | | | | 0.37 FT |
| COMBINED 4" AND 6" FRICTION LOSS | | | | | | | | 3.95 FT |
| STATIC HEAD | | | | | | | + | 11.05 FT |
| PERFORMANCE | 330 GPM | @ | 15.00 | | | FT TDH THROUGH 6" PVC LINE | | |

# STORM WATER PUMP SYSTEM DETAILS

NOTE: VERIFY ALL ELVEATIONS PRIOR TO FABRICATION. OTHERS TO VERIFY ALL INLET/OUTLET ORIENTATIONS PRIOR TO FABRICATION AND INSTALLATION.
*ALL PIPE OPENINGS AND SEALING SHALL BE COMPLETED IN FIELD BY OTHERS.

PSI Pacific Southwest Industries
ENGINEERED- PUMPS/FLUID HANDLING & DISPOSAL SYSTEMS
18541 COLLIER AVE., LAKE ELSINORE, CA 92530 PH: 800 358-9095

| No. | Date | Description |
|---|---|---|
| | | |

LIFT STATION DETAILS
McDONALD'S
2109 E. SANTA CLARA AVE
SANTA ANA, CA

| | |
|---|---|
| Date: | 04/19/23 |
| Drawn by: | DM |
| Checked by: | |
| Scale: NTS | |
| Sheet No. | 1 OF 1 |

LSD-1

**Project:** **McDonald's Santa Ana**

| | | |
|---|---|---|
| Chamber Model - | SC-740 | |
| Units - | Imperial | |
| Number of Chambers - | 45 | |
| Voids in the stone (porosity) - | 40 | % |
| Base of Stone Elevation - | 185.57 | ft |
| Amount of Stone Above Chambers - | 6 | in |
| Amount of Stone Below Chambers - | 6 | in |
| Area of system - | 1860 | sf Min. Area - 1521 sf min. area |

Include Perimeter Stone in Calculations

Click for Stage Area Data

Click to Invert Stage Area Data

Click Here for Metric

## StormTech SC-740 Cumulative Storage Volumes

| Height of System (inches) | Incremental Single Chamber (cubic feet) | Incremental Total Chamber (cubic feet) | Incremental Stone (cubic feet) | Incremental Ch & St (cubic feet) | Cumulative Chamber (cubic feet) | Elevation (feet) |
|---|---|---|---|---|---|---|
| 42 | 0.00 | 0.00 | 62.00 | 62.00 | 3844.67 | 189.07 |
| 41 | 0.00 | 0.00 | 62.00 | 62.00 | 3782.67 | 188.99 |
| 40 | 0.00 | 0.00 | 62.00 | 62.00 | 3720.67 | 188.90 |
| 39 | 0.00 | 0.00 | 62.00 | 62.00 | 3658.67 | 188.82 |
| 38 | 0.00 | 0.00 | 62.00 | 62.00 | 3596.67 | 188.74 |
| 37 | 0.00 | 0.00 | 62.00 | 62.00 | 3534.67 | 188.65 |
| 36 | 0.05 | 2.47 | 61.01 | 63.48 | 3472.67 | 188.57 |
| 35 | 0.16 | 7.33 | 59.07 | 66.40 | 3409.19 | 188.49 |
| 34 | 0.28 | 12.69 | 56.93 | 69.61 | 3342.79 | 188.40 |
| 33 | 0.60 | 27.18 | 51.13 | 78.31 | 3273.18 | 188.32 |
| 32 | 0.80 | 36.08 | 47.57 | 83.65 | 3194.87 | 188.24 |
| 31 | 0.95 | 42.78 | 44.89 | 87.67 | 3111.22 | 188.15 |
| 30 | 1.07 | 48.35 | 42.66 | 91.01 | 3023.56 | 188.07 |
| 29 | 1.18 | 53.12 | 40.75 | 93.87 | 2932.54 | 187.99 |
| 28 | 1.27 | 56.95 | 39.22 | 96.17 | 2838.67 | 187.90 |
| 27 | 1.36 | 60.98 | 37.61 | 98.59 | 2742.50 | 187.82 |
| 26 | 1.45 | 65.43 | 35.83 | 101.26 | 2643.91 | 187.74 |
| 25 | 1.52 | 68.61 | 34.55 | 103.17 | 2542.65 | 187.65 |
| 24 | 1.58 | 71.20 | 33.52 | 104.72 | 2439.48 | 187.57 |
| 23 | 1.64 | 73.90 | 32.44 | 106.34 | 2334.76 | 187.49 |
| 22 | 1.70 | 76.48 | 31.41 | 107.89 | 2228.42 | 187.40 |
| 21 | 1.75 | 78.88 | 30.45 | 109.33 | 2120.53 | 187.32 |
| 20 | 1.80 | 81.13 | 29.55 | 110.68 | 2011.20 | 187.24 |
| 19 | 1.85 | 83.47 | 28.61 | 112.08 | 1900.53 | 187.15 |
| 18 | 1.89 | 85.19 | 27.92 | 113.11 | 1788.44 | 187.07 |
| 17 | 1.93 | 87.03 | 27.19 | 114.22 | 1675.33 | 186.99 |
| 16 | 1.97 | 88.87 | 26.45 | 115.32 | 1561.11 | 186.90 |
| 15 | 2.01 | 90.45 | 25.82 | 116.27 | 1445.79 | 186.82 |
| 14 | 2.04 | 92.02 | 25.19 | 117.21 | 1329.52 | 186.74 |
| 13 | 2.07 | 93.37 | 24.65 | 118.02 | 1212.30 | 186.65 |
| 12 | 2.10 | 94.72 | 24.11 | 118.83 | 1094.28 | 186.57 |
| 11 | 2.13 | 95.93 | 23.63 | 119.56 | 975.45 | 186.49 |
| 10 | 2.15 | 96.92 | 23.23 | 120.15 | 855.89 | 186.40 |
| 9 | 2.18 | 97.97 | 22.81 | 120.78 | 735.73 | 186.32 |
| 8 | 2.20 | 98.93 | 22.43 | 121.36 | 614.95 | 186.24 |
| 7 | 2.21 | 99.33 | 22.27 | 121.60 | 493.60 | 186.15 |
| 6 | 0.00 | 0.00 | 62.00 | 62.00 | 372.00 | 186.07 |
| 5 | 0.00 | 0.00 | 62.00 | 62.00 | 310.00 | 185.99 |
| 4 | 0.00 | 0.00 | 62.00 | 62.00 | 248.00 | 185.90 |
| 3 | 0.00 | 0.00 | 62.00 | 62.00 | 186.00 | 185.82 |
| 2 | 0.00 | 0.00 | 62.00 | 62.00 | 124.00 | 185.74 |
| 1 | 0.00 | 0.00 | 62.00 | 62.00 | 62.00 | 185.65 |

# Attachment I
# Educational Materials

# IC7. LANDSCAPE MAINTENANCE

## Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner[1]. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

The BMPs outlined in this fact sheet target the following pollutants:

| Targeted Constituents | |
|---|---|
| Sediment | x |
| Nutrients | x |
| Floatable Materials | x |
| Metals | |
| Bacteria | x |
| Oil & Grease | |
| Organics & Toxicants | |
| Pesticides | x |
| Oxygen Demanding | x |

MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Properly store and dispose of gardening wastes.
- Use mulch or other erosion control measures on exposed soils.
- Properly manage irrigation and runoff.
- Properly store and dispose of chemicals.
- Properly manage pesticide and herbicide use.
- Properly manage fertilizer use.

Stencil storm drains

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- Provide on-going employee training in pollution prevention.

Provided below are specific procedures associated with each of the minimum BMPs along with procedures for additional BMPs that should be considered if this activity takes place at a facility located near a sensitive waterbody. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

1. Take steps to reduce landscape maintenance requirements.
    - Where feasible, retain and/or plant native vegetation with features that are determined to be beneficial. Native vegetation usually requires less maintenance than planting new vegetation.
    - When planting or replanting consider using low water use flowers, trees, shrubs, and groundcovers.
    - Consider alternative landscaping techniques such as naturescaping and xeriscaping.
2. Properly store and dispose of gardening wastes.
    - Dispose of grass clippings, leaves, sticks, or other collected vegetation as garbage at a permitted landfill or by composting.
    - Do not dispose of gardening wastes in streets, waterways, or storm drainage systems.
    - Place temporarily stockpiled material away from watercourses and storm drain inlets, and berm and/or cover.
3. Use mulch or other erosion control measures on exposed soils.

[1] EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices"*

4. Properly manage irrigation and runoff.
    - Irrigate slowly or pulse irrigate so the infiltration rate of the soil is not exceeded.
    - Inspect irrigation system regularly for leaks and to ensure that excessive runoff is not occurring.
    - If re-claimed water is used for irrigation, ensure that there is no runoff from the landscaped area(s).
    - If bailing of muddy water is required (e.g. when repairing a water line leak), do not put it in the storm drain; pour over landscaped areas.
    - Use automatic timers to minimize runoff.
    - Use popup sprinkler heads in areas with a lot of activity or where pipes may be broken. Consider the use of mechanisms that reduce water flow to broken sprinkler heads.
5. Properly store and dispose of chemicals.
    - Implement storage requirements for pesticide products with guidance from the local fire department and/or County Agricultural Commissioner.
    - Provide secondary containment for chemical storage.
    - Dispose of empty containers according to the instructions on the container label.
    - Triple rinse containers and use rinse water as product.
6. Properly manage pesticide and herbicide use.
    - Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of pesticides and herbicides and training of applicators and pest control advisors.
    - Follow manufacturers' recommendations and label directions.
    - Use pesticides only if there is an actual pest problem (not on a regular preventative schedule). When applicable use less toxic pesticides that will do the job. Avoid use of copper-based pesticides if possible. Use the minimum amount of chemicals needed for the job.
    - Do not apply pesticides if rain is expected or if wind speeds are above 5 mph.
    - Do not mix or prepare pesticides for application near storm drains. Prepare the minimum amount of pesticide needed for the job and use the lowest rate that will effectively control the targeted pest.
    - Whenever possible, use mechanical methods of vegetation removal rather than applying herbicides. Use hand weeding where practical.
    - Do not apply any chemicals directly to surface waters, unless the application is approved and permitted by the state. Do not spray pesticides within 100 feet of open waters.
    - Employ techniques to minimize off-target application (e.g. spray drift) of pesticides, including consideration of alternative application techniques.
    - When conducting mechanical or manual weed control, avoid loosening the soil, which could lead to erosion.
    - Purchase only the amount of pesticide that you can reasonably use in a given time period.
    - Careful soil mixing and layering techniques using a topsoil mix or composted organic material can be used as an effective measure to reduce herbicide use and watering.
7. Properly manage fertilizer use.
    - Follow all federal, state, and local laws and regulations governing the use, storage, and disposal of fertilizers.
    - Follow manufacturers' recommendations and label directions.
    - Employ techniques to minimize off-target application (e.g. spray drift) of fertilizer, including consideration of alternative application techniques. Calibrate fertilizer distributors to avoid excessive application.
    - Periodically test soils for determining proper fertilizer use.
    - Fertilizers should be worked into the soil rather than dumped or broadcast onto the surface.
    - Sweep pavement and sidewalk if fertilizer is spilled on these surfaces before applying irrigation water.
    - Use slow release fertilizers whenever possible to minimize leaching

8. Incorporate the following integrated pest management techniques where appropriate:
    - Mulching can be used to prevent weeds where turf is absent.
    - Remove insects by hand and place in soapy water or vegetable oil. Alternatively, remove insects with water or vacuum them off the plants.
    - Use species-specific traps (e.g. pheromone-based traps or colored sticky cards).
    - Sprinkle the ground surface with abrasive diatomaceous earth to prevent infestations by soft-bodied insects and slugs. Slugs also can be trapped in small cups filled with beer that are set in the ground so the slugs can get in easily.
    - In cases where microscopic parasites, such as bacteria and fungi, are causing damage to plants, the affected plant material can be removed and disposed of (pruning equipment should be disinfected with bleach to prevent spreading the disease organism).
    - Small mammals and birds can be excluded using fences, netting, and tree trunk guards.
    - Promote beneficial organisms, such as bats, birds, green lacewings, ladybugs, praying mantis, ground beetles, parasitic nematodes, trichogramma wasps, seedhead weevils, and spiders that prey on detrimental pest species.

## Training

1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
2. Educate and train employees on the use of pesticides and pesticide application techniques. Only employees properly trained to use pesticides can apply them.
3. Train and encourage employees to use integrated pest management techniques.
4. Train employees on proper spill containment and cleanup.
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
    - Fact sheet IC17 discusses Spill Prevention and Control in detail.
5. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
6. Use a training log or similar method to document training.

## Stencil storm drains

Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets. Stencils should read "No Dumping Drains to Ocean".

## References

California Storm Water Best Management Practice Handbook. Industrial and Commercial. 2003. www.cabmphandbooks.com

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser& McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: http://dnr.metrokc.gov/wlr/dss/spcm.htm

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

Water Quality Handbook for Nurseries. Oklahoma Cooperative Extension Service. Division of Agricultural Sciences and Natural Resources. Oklahoma State University. E-951. September 1999.

For additional information contact:

County of Orange/ OC Watersheds
Main: (714) 955-0600
24 hr Water Pollution Hotline: 1-877-89-SPILL
or visit our website at www.ocwatersheds.com

# IC15. PARKING AND STORAGE AREA MAINTENANCE

## Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner[1]. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

The BMPs outlined in this fact sheet target the following pollutants:

| Targeted Constituents | |
|---|---|
| Sediment | x |
| Nutrients | x |
| Floatable Materials | x |
| Metals | x |
| Bacteria | x |
| Oil & Grease | x |
| Organics & Toxicants | x |
| Pesticides | x |
| Oxygen Demanding | x |

MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Conduct regular cleaning.
- Properly collect and dispose of wash water.
- Keep the parking and storage areas clean and orderly.
- Use absorbent materials and properly dispose of them when cleaning heavy oily deposits.
- When conducting surface repair work cover materials and clean paintbrushes and tools appropriately.

Stencil storm drains

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- Provide on-going employee training in pollution prevention.

Provided below are specific procedures associated with each of the minimum BMPs along with procedures for additional BMPs that should be considered if this activity takes place at a facility located near a sensitive waterbody. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

1. Conduct regular cleaning.
    - Sweeping or vacuuming the parking facility is encouraged over other methods.
    - Sweep all parking lots at least once before the onset of the wet season.
    - Establish frequency of sweeping based on usage and field observations of waste accumulation.
2. Properly collect and dispose of wash water.
    - Block the storm drain or contain runoff.
    - Wash water should be collected and pumped to the sanitary sewer or discharged to a pervious surface, do not allow wash water to enter storm drains. Refer to fact sheet *IC24 Wastewater Disposal* for guidance on appropriate methods for disposal of wash water to the sanitary sewer.
    - Dispose of parking lot sweeping debris and dirt at a landfill.
3. Consider use of source treatment BMPs to treat runoff.
    - Allow sheet runoff to flow into biofilters (vegetated strip and swale) and/or infiltration devices.
    - Utilize sand filters or oleophilic collectors for oily waste in low quantities.

[1] EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices"*

4. Keep the parking and storage areas clean and orderly.
    - Clean out and cover litter receptacles frequently to prevent spillage.
    - Remove debris in a timely fashion.

    OPTIONAL:
    - Post “No Littering” signs.
5. When cleaning heavy oily deposits:
    - If possible, clean oily spots with absorbent materials.
    - Do not allow discharges to the storm drain.
    - Appropriately dispose of spilled materials and absorbents.
6. When conducting surface repair work:
    - Pre-heat, transfer or load hot bituminous material away from storm drain inlets.
    - Conduct surface repair work during dry weather to prevent contamination from contacting stormwater runoff.
    - Cover and seal nearby storm drain inlets (with waterproof material or mesh) and manholes before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and clean any debris for proper disposal.
    - To avoid runoff, use only as much water as necessary for dust control.
    - Use drip pans or absorbent material to catch drips from paving equipment that is not in use. Dispose of collected material and absorbents properly.
7. Conduct inspections on a regular basis.
    - Designate personnel to conduct inspections of the parking facilities and stormwater conveyance systems associated with them.
    - Inspect cleaning equipment/sweepers for leaks on a regular basis.
8. Keep accurate maintenance logs to evaluate materials removed/stored and improvements made.
9. Arrange rooftop drains to prevent drainage directly onto paved surfaces.

Training

1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
2. Train employees on proper spill containment and cleanup.
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site’s spill control plan and/or proper spill cleanup procedures.
    - Fact sheet IC17 discusses Spill Prevention and Control in detail.
3. Provide regular training to field employees and/or contractors regarding cleaning of paved areas and proper operation of equipment.
4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
5. Use a training log or similar method to document training.

Stencil storm drains

Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets. Stencils should read “No Dumping Drains to Ocean”.

## References

California Storm Water Best Management Practice Handbook. Industrial and Commercial. 2003. www.cabmphandbooks.com

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser& McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

King County Stormwater Pollution Control Manual. Best Management Practices for Businesses. King County Surface Water Management. July 1995. On-line: http://dnr.metrokc.gov/wlr/dss/spcm.htm

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

Stormwater Management Manual for Western Washington. Volume IV Source Control BMPs. Prepared by Washington State Department of Ecology Water Quality Program. Publication No. 99-14. August 2001.

## For additional information contact:

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24 hr Water Pollution Hotline: 1-877-89-SPILL
or visit our website at www.ocwatersheds.com

# IC21. WASTE HANDLING AND DISPOSAL

## Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner[1]. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

The BMPs outlined in this fact sheet target the following pollutants:

| Targeted Constituents | |
|---|---|
| Sediment | x |
| Nutrients | x |
| Floatable Materials | x |
| Metals | x |
| Bacteria | x |
| Oil & Grease | x |
| Organics & Toxicants | x |
| Pesticides | x |
| Oxygen Demanding | x |

MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Prevent waste materials from coming in direct contact with wind or rain. .
- Keep waste collection areas clean.
- Secure solid waste containers when not in use.
- Regularly inspect, repair, and/or replace waste containers.
- Use all of a product before disposing of the container.
- Label and store hazardous wastes according to hazardous waste regulations.

Stencil storm drains

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- Provide on-going employee training in pollution prevention.

Provided below are specific procedures associated with each of the minimum BMPs along with procedures for additional BMPs that should be considered if this activity takes place at a facility located near a sensitive waterbody. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

1. Prevent waste materials from coming in direct contact with wind or rain.
    - Cover the waste management area with a permanent roof.
    - If this is not feasible, cover waste piles with temporary covering material such as reinforced tarpaulin, polyethylene, polyurethane, polypropylene, or hypalon.
    - Cover dumpsters to prevent rain from washing out waste materials.
2. Design waste handling and disposal area to prevent stormwater runon.
    - Enclose the waste handling and disposal area or build a berm around it.
    - Position roof downspouts to direct stormwater away from waste handling and disposal area.
3. Design waste handling and disposal area to contain spills.
    - Place dumpsters or other waste receptacles on an impervious surface.
    - Construct a berm around the area to contain spills.
    - Install drains connected to the public sewer or the facility's process wastewater system within these contained areas. DO NOT discharge to a public sewer until contacting the local sewer authority to find out if pretreatment is required.

[1] EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices"*

4. Keep waste collection areas clean.
    - When cleaning around waste handling and disposal areas use dry methods when possible (e.g. sweeping, use of absorbents).
    - If water must be used, collect water and discharge to the sewer if permitted to do so. DO NOT discharge to a public sewer until contacting the local sewer authority to find out if pretreatment is required. If discharge to the sanitary sewer is not allowed, pump water to a tank and dispose of properly.
    - Post "No Littering" signs.
5. Secure solid waste containers when not in use.
6. Regularly inspect, repair, and/or replace waste containers.
7. Do not fill waste containers with washout water or any other liquid.
8. Use all of a product before disposing of the container.
9. Segregate wastes by type and label and date wastes.
    - Do not mix wastes; this can cause chemical reactions, make recycling impossible, and complicate disposal.
    - Ensure that only appropriate solid wastes are added to solid waste containers.
    - Certain wastes such as hazardous wastes, appliances, fluorescent lamps, pesticides, etc. may not be disposed of in solid waste containers.
10. Label and store hazardous wastes according to hazardous waste regulations.
    - Consult your local hazardous waste agency or Fire Department for details.
    - Obtain a hazardous waste generator license or permit if necessary.
12. Minimize waste.
    - Recycle materials whenever possible.
    - Modify processes or equipment to increase efficiency.
    - Identify and promote use of non-hazardous alternatives.
    - Reduction in the amount of waste generated can be accomplished using many different types of source controls such as:
        - Production planning and sequencing
        - Process or equipment modification
        - Raw material substitution or elimination
        - Loss prevention and housekeeping
        - Waste segregation and separation
        - Close loop recycling
    - Establish a material tracking system to increase awareness about material usage. This may reduce spills and minimize contamination, thus reducing the amount of waste produced.

Training

1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
2. Train employees in proper waste handling and disposal.
3. Train employees on proper spill containment and cleanup.
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
    - Fact sheet IC17 discusses Spill Prevention and Control in detail.

4. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
5. Use a training log or similar method to document training.

## Stencil storm drains

Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets. Stencils should read "No Dumping Drains to Ocean".

## References

California Storm Water Best Management Practice Handbook. Industrial and Commercial. 2003. www.cabmphandbooks.com

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser& McKee, Larry Walker Associates, Uribe and Associates, Resources Planning Associates for Stormwater Quality Task Force. March 1993.

Model Urban Runoff Program: A How-To Guide for Developing Urban Runoff Programs for Small Municipalities. Prepared by City of Monterey, City of Santa Cruz, California Coastal Commission, Monterey Bay National Marine Sanctuary, Association of Monterey Bay Area Governments, Woodward-Clyde, Central Coast Regional Water Quality Control Board. July 1998 (Revised February 2002 by the California Coastal Commission).

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24 hr Water Pollution Hotline: 1-877-89-SPILL
or visit our website at www.ocwatersheds.com

# IC22. EATING AND DRINKING ESTABLISHMENTS

## Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner[1]. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Use dry cleaning methods instead of water
- Clean equipment (floor mats, grease filters, grills, garbage cans, etc.) indoors or in a covered outdoor wash area that is plumbed to the sanitary sewer or in an area that will contain the wash water (Refer to fact sheet *IC24 Wastewater Disposal* for guidance on appropriate methods for disposal of wash water to the sanitary sewer).
- Recycle and/or properly dispose of grease and oil.
- Block the storm drain when hosing or steam/pressure washing outside dumpster areas, sidewalks, and common areas.

Stencil storm drains

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.

The BMPs outlined in this fact sheet target the following pollutants:

| Targeted Constituents | |
|---|---|
| Sediment | |
| Nutrients | x |
| Floatable Materials | x |
| Metals | |
| Bacteria | x |
| Oil & Grease | x |
| Organics & Toxicants | x |
| Pesticides | x |
| Oxygen Demanding | x |

Provided below are specific procedures associated with each of the minimum BMPs along with procedures for additional BMPs that should be considered if this activity takes place at a facility located near a sensitive waterbody. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

1. Practice good housekeeping.
    - Conduct regular sweeping or vacuuming of outdoor areas: Dry sweep pavement areas including “drive-thru” areas, parking lots, sidewalks, outdoor eating areas and dumpster storage areas frequently.
    - Keep outside areas free of trash & debris.
    - Do not hose out dumpsters or fill them with liquid waste.
    - Regularly inspect, repair, and/or replace dumpsters.
2. Clean equipment (floor mats, grease filters, grills, garbage cans, etc.) indoors or in a covered outdoor wash area that is plumbed to the sanitary sewer.
    - Clean equipment in a mop sink if possible (never in a food preparation sink). If there is no mop sink, dedicate an indoor cleaning area where a drain is plumbed to the sanitary sewer.
    - Dispose mop water from cleaning floors in a mop sink, toilet or other drain that is plumbed to the sanitary sewer. Refer to fact sheet *IC24 Wastewater Disposal* for guidance on appropriate methods for disposal of wash water to the sanitary sewer.
    - Do not pour wash water outside or into a street, gutter, or storm drain.

[1] EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices”*

- Dispose of all wastewater containing oil and grease in a grease trap or interceptor.

3. Recycle and/or properly dispose of grease and oil. Collect and dispose of concentrated waste oil and grease and disposed of by a certified waste grease hauler. NEVER pour grease or oil into a sink, floor drain, storm drain or dumpster.
4. Block storm drain(s) when cleaning (hosing or steam/pressure washing) outside dumpster areas, sidewalks, and common areas with hot water, soap, or other cleaning agent. Collect water/waste and discharge to the sanitary sewer (with approval of the local sanitation district).

Training

1. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
2. Train employees on proper spill containment and cleanup.
    - Establish training that provides employees with the proper tools and knowledge to immediately begin cleaning up a spill.
    - Ensure that employees are familiar with the site's spill control plan and/or proper spill cleanup procedures.
    - Fact sheet IC17 discusses Spill Prevention and Control in detail.
3. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
4. Use a training log or similar method to document training.

Stencil storm drains

Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets. Stencils should read "No Dumping Drains to Ocean".

References

California Storm Water Best Management Practice Handbook. Industrial and Commercial. 2003. www.cabmphandbooks.com

Carlsbad Jurisdictional Urban Runoff Management Plan. Best Management Practices for Restaurants. City of Carlsbad. February 2002. On-line: http://www.ci.carlsbad.ca.us/cserv/jurmp.html

Orange County Stormwater Program. 2001. Water Quality Guidelines for Exterior Restaurant Cleaning Operations. Brochure. June.

Orange County Stormwater Program. Good Cleaning Practices Food & Restaurant Industry. Poster. Courtesy of the City and County of LA.

For additional information contact:

County of Orange/ OC Watersheds
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# IC23. FIRE SPRINKLER TESTING/MAINTENANCE

## Best Management Practices (BMPs)

A BMP is a technique, measure or structural control that is used for a given set of conditions to improve the quality of the stormwater runoff in a cost effective manner[1]. The minimum required BMPs for this activity are outlined in the box to the right. Implementation of pollution prevention/good housekeeping measures may reduce or eliminate the need to implement other more costly or complicated procedures. Proper employee training is key to the success of BMP implementation.

Provided below are specific procedures associated with this activity. In order to meet the requirements for medium and high priority facilities, the owners/operators must select, install and maintain appropriate BMPs on site. Since the selection of the appropriate BMPs is a site-specific process, the types and numbers of additional BMPs will vary for each facility.

### MINIMUM BEST MANAGEMENT PRACTICES

Pollution Prevention/Good Housekeeping

- Conduct activity on non-rainy days and for the shortest duration possible to minimize discharge volume.
- Inspect flow path and remove all debris and materials prior to testing or maintenance.

Training

- Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
- Provide on-going employee training in pollution prevention.

The BMPs outlined in this fact sheet target the following pollutants:

| Targeted Constituents | |
|---|---|
| Sediment | |
| Nutrients | |
| Floatable Materials | |
| Metals | x |
| Bacteria | |
| Oil & Grease | x |
| Organics & Toxicants | |
| Pesticides | |
| Oxygen Demanding | |

## Best Management Practices

1. Contain flows onsite and/or direct the water flows to landscaped or green areas whenever possible and safe to do so without causing damage or erosion.
2. Divert sprinkler system flows to the sewer, when practicable and with the permission of the local sewer agency. Refer to fact sheet *IC24 Wastewater Disposal* for guidance on appropriate methods for disposal of wash water to the sanitary sewer.
3. Training
   a. Train employees on these BMPs, storm water discharge prohibitions, and wastewater discharge requirements.
   b. Establish a regular training schedule, train all new employees, and conduct annual refresher training.
   c. Use a training log or similar method to document training.

## References

California Storm Water Best Management Practice Handbooks. Industrial/Commercial Best Management Practice Handbook. Prepared by Camp Dresser& McKee, Larry Walker Associates for California Stormwater Quality Association. January 2003.

For additional information contact:

County of Orange/ OC Watersheds
Main: (714) 955-0600
24 hr Water Pollution Hotline: 1-877-89-SPILL
or visit our website at www.ocwatersheds.com

[1] EPA " *Preliminary Data Summary of Urban Stormwater Best Management Practices"*

# The Ocean Begins at Your Front Door

PROJECT Pollution PREVENTION

Follow these simple steps to help reduce water pollution:

## *Household Activities*

- Do not rinse spills with water. Use dry cleanup methods such as applying cat litter or another absorbent material, sweep and dispose of in the trash. Take items such as used or excess batteries, oven cleaners, automotive fluids, painting products and cathode ray tubes, like TVs and computer monitors, to a Household Hazardous Waste Collection Center (HHWCC).
- For a HHWCC near you call (714) 834-6752 or visit www.oclandfills.com.
- Do not hose down your driveway, sidewalk or patio to the street, gutter or storm drain. Sweep up debris and dispose of it in the trash.

## *Automotive*

- Take your vehicle to a commercial car wash whenever possible. If you wash your vehicle at home, choose soaps, cleaners, or detergents labeled non-toxic, phosphate- free or biodegradable. Vegetable and citrus-based products are typically safest for the environment.
- Do not allow washwater from vehicle washing to drain into the street, gutter or storm drain. Excess washwater should be disposed of in the sanitary sewer (through a sink or toilet) or onto an absorbent surface like your lawn.
- Monitor your vehicles for leaks and place a pan under leaks. Keep your vehicles well maintained to stop and prevent leaks.
- Never pour oil or antifreeze in the street, gutter or storm drain. Recycle these substances at a service station, a waste oil collection center or used oil recycling center. For the nearest Used Oil Collection Center call 1-800-CLEANUP or visit www.1800cleanup.org.

## *Pool Maintenance*

- Pool and spa water must be dechlorinated and free of excess acid, alkali or color to be allowed in the street, gutter or storm drain.
- When it is not raining, drain dechlorinated pool and spa water directly into the sanitary sewer.
- Some cities may have ordinances that do not allow pool water to be disposed of in the storm drain. Check with your city.

## *Landscape and Gardening*

- Do not over-water. Water your lawn and garden by hand to control the amount of water you use or set irrigation systems to reflect seasonal water needs. If water flows off your yard onto your driveway or sidewalk, your system is over-watering. Periodically inspect and fix leaks and misdirected sprinklers.
- Do not rake or blow leaves, clippings or pruning waste into the street, gutter or storm drain. Instead, dispose of waste by composting, hauling it to a permitted landfill, or as green waste through your city's recycling program.
- Follow directions on pesticides and fertilizer, (measure, do not estimate amounts) and do not use if rain is predicted within 48 hours.
- Take unwanted pesticides to a HHWCC to be recycled. For locations and hours of HHWCC, call (714) 834-6752 or visit www.oclandfills.com.

## *Trash*

- Place trash and litter that cannot be recycled in securely covered trash cans.
- Whenever possible, buy recycled products.
- Remember: Reduce, Reuse, Recycle.

## *Pet Care*

- Always pick up after your pet. Flush waste down the toilet or dispose of it in the trash. Pet waste, if left outdoors, can wash into the street, gutter or storm drain.
- If possible, bathe your pets indoors. If you must bathe your pet outside, wash it on your lawn or another absorbent/permeable surface to keep the washwater from entering the street, gutter or storm drain.
- Follow directions for use of pet care products and dispose of any unused products at a HHWCC.

## *Common Pollutants*

### *Home Maintenance*

- Detergents, cleaners and solvents
- Oil and latex paint
- Swimming pool chemicals
- Outdoor trash and litter

### *Lawn and Garden*

- Pet and animal waste
- Pesticides
- Clippings, leaves and soil
- Fertilizer

### *Automobile*

- Oil and grease
- Radiator fluids and antifreeze
- Cleaning chemicals
- Brake pad dust

# The Ocean Begins at Your Front Door

*Never allow pollutants to enter the street, gutter or storm drain!*

## *Did You Know?*

- Most people believe that the largest source of water pollution in urban areas comes from specific sources such as factories and sewage treatment plants. In fact, the largest source of water pollution comes from city streets, neighborhoods, construction sites and parking lots. This type of pollution is sometimes called "non-point source" pollution.
- There are two types of non-point source pollution: stormwater and urban runoff pollution.
- Stormwater runoff results from rainfall. When rainstorms cause large volumes of water to rinse the urban landscape, picking up pollutants along the way.
- Urban runoff can happen any time of the year when excessive water use from irrigation, vehicle washing and other sources carries trash, lawn clippings and other urban pollutants into storm drains.

## *Where Does It Go?*

- Anything we use outside homes, vehicles and businesses – like motor oil, paint, pesticides, fertilizers and cleaners – can be blown or washed into storm drains.
- A little water from a garden hose or rain can also send materials into storm drains.
- Storm drains are separate from our sanitary sewer systems; unlike water in sanitary sewers (from sinks or toilets), water in storm drains is not treated before entering our waterways.

## *Sources of Non-Point Source Pollution*

- Automotive leaks and spills.
- Improper disposal of used oil and other engine fluids.
- Metals found in vehicle exhaust, weathered paint, rust, metal plating and tires.
- Pesticides and fertilizers from lawns, gardens and farms.
- Improper disposal of cleaners, paint and paint removers.
- Soil erosion and dust debris from landscape and construction activities.
- Litter, lawn clippings, animal waste, and other organic matter.
- Oil stains on parking lots and paved surfaces.

## *The Effect on the Ocean*

Non-point source pollution can have a serious impact on water quality in Orange County. Pollutants from the storm drain system can harm marine life as well as coastal and wetland habitats. They can also degrade recreation areas such as beaches, harbors and bays.

Stormwater quality management programs have been developed throughout Orange County to educate and encourage the public to protect water quality, monitor runoff in the storm drain system, investigate illegal dumping and maintain storm drains.

Support from Orange County residents and businesses is needed to improve water quality and reduce urban runoff pollution. Proper use and disposal of materials will help stop pollution before it reaches the storm drain and the ocean.

# *For More Information*

## Orange County Stormwater Program

**California Environmental Protection Agency**
www.calepa.ca.gov

- **Air Resources Board**
  www.arb.ca.gov
- **Department of Pesticide Regulation**
  www.cdpr.ca.gov
- **Department of Toxic Substances Control**
  www.dtsc.ca.gov
- **Integrated Waste Management Board**
  www.ciwmb.ca.gov
- **Office of Environmental Health Hazard Assessment**
  www.oehha.ca.gov
- **State Water Resources Control Board**
  www.waterboards.ca.gov

**Earth 911 -** Community-Specific Environmental Information 1-800-cleanup or visit www.1800cleanup.org

**Health Care Agency's Ocean and Bay Water Closure and Posting Hotline**
(714) 433-6400 or visit www.ocbeachinfo.com

**Integrated Waste Management Dept. of Orange County** (714) 834-6752 or visit www.oclandfills.com for information on household hazardous waste collection centers, recycling centers and solid waste collection

**O.C. Agriculture Commissioner**
(714) 447-7100 or visit www.ocagcomm.com

**Stormwater Best Management Practice Handbook**
Visit www.cabmphandbooks.com

**UC Master Gardener Hotline**
(714) 708-1646 or visit www.uccemg.com

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The Orange County Stormwater Program has created and moderates an electronic mailing list to facilitate communications, take questions and exchange ideas among its users about issues and topics related to stormwater and urban runoff and the implementation of program elements. To join the list, please send an email to ocstormwaterinfo-join@list.ocwatersheds.com

| | | |
|---|---|---|
| Aliso Viejo | (949) | 425-2535 |
| Anaheim Public Works Operations | (714) | 765-6860 |
| Brea Engineering | (714) | 990-7666 |
| Buena Park Public Works | (714) | 562-3655 |
| Costa Mesa Public Services | (714) | 754-5323 |
| Cypress Public Works | (714) | 229-6740 |
| Dana Point Public Works | (949) | 248-3584 |
| Fountain Valley Public Works | (714) | 593-4441 |
| Fullerton Engineering Dept. | (714) | 738-6853 |
| Garden Grove Public Works | (714) | 741-5956 |
| Huntington Beach Public Works | (714) | 536-5431 |
| Irvine Public Works | (949) | 724-6315 |
| La Habra Public Services | (562) | 905-9792 |
| La Palma Public Works | (714) | 690-3310 |
| Laguna Beach Water Quality | (949) | 497-0378 |
| Laguna Hills Public Services | (949) | 707-2650 |
| Laguna Niguel Public Works | (949) | 362-4337 |
| Laguna Woods Public Works | (949) | 639-0500 |
| Lake Forest Public Works | (949) | 461-3480 |
| Los Alamitos Community Dev. | (562) | 431-3538 |
| Mission Viejo Public Works | (949) | 470-3056 |
| Newport Beach, Code & Water Quality Enforcement | (949) | 644-3215 |
| Orange Public Works | (714) | 532-6480 |
| Placentia Public Works | (714) | 993-8245 |
| Rancho Santa Margarita | (949) | 635-1800 |
| San Clemente Environmental Programs | (949) | 361-6143 |
| San Juan Capistrano Engineering | (949) | 234-4413 |
| Santa Ana Public Works | (714) | 647-3380 |
| Seal Beach Engineering | (562) | 431-2527 x317 |
| Stanton Public Works | (714) | 379-9222 x204 |
| Tustin Public Works/Engineering | (714) | 573-3150 |
| Villa Park Engineering | (714) | 998-1500 |
| Westminster Public Works/Engineering | (714) | 898-3311 x446 |
| Yorba Linda Engineering | (714) | 961-7138 |
| Orange County Stormwater Program | (877) | 897-7455 |

Orange County 24-Hour
Water Pollution Problem Reporting Hotline
1-877-89-SPILL (1-877-897-7455)

On-line Water Pollution Problem Reporting Form
www.ocwatersheds.com

Printed on Recycled Paper

## *Preventing water pollution at your commercial/industrial site*

Clean beaches and healthy creeks, rivers, bays and ocean are important to Orange County. However, many landscape and building maintenance activities can lead to water pollution if you're not careful. Paint, chemicals, plant clippings and other materials can be blown or washed into storm drains that flow to the ocean. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never pour soap or fertilizers into the ocean, so why would you let them enter the storm drains? Follow these easy tips to help prevent water pollution.

Some types of industrial facilities are required to obtain coverage under the State General Industrial Permit. For more information visit: **www.swrcb.ca.gov/stormwater/industrial.html**

For more information, please call the **Orange County Stormwater Program** at **1-877-89-SPILL** (1-877-897-7455) or visit **www.ocwatersheds.com**

To report a spill, call the **Orange County 24-Hour Water Pollution Problem Reporting Hotline** at **1-877-89-SPILL** (1-877-897-7455).

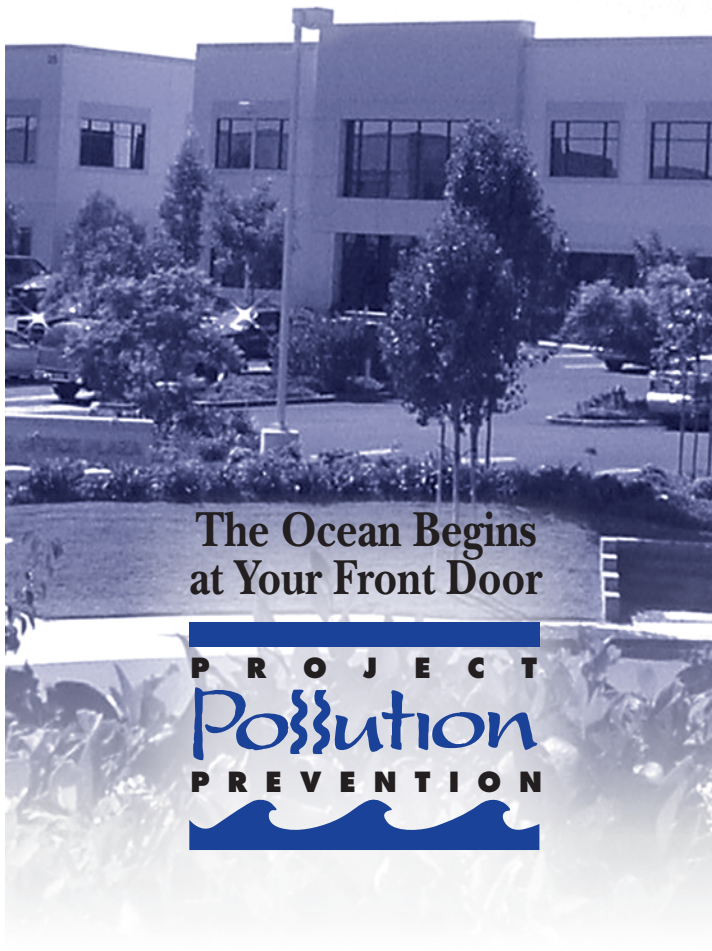
**For emergencies, dial 911.**

RECYCLE USED OIL

Printed on Recycled Paper

Help Prevent Ocean Pollution:

# Proper Maintenance Practices for Your Business



**The Ocean Begins at Your Front Door**

PROJECT Pollution PREVENTION

# Proper Maintenance Practices for your Business

## *Landscape Maintenance*

- Compost grass clippings, leaves, sticks and other vegetation, or dispose of it at a permitted landfill or in green waste containers. Do not dispose of these materials in the street, gutter or storm drain.
- Irrigate slowly and inspect the system for leaks, overspraying and runoff. Adjust automatic timers to avoid overwatering.
- Follow label directions for the use and disposal of fertilizers and pesticides.
- Do not apply pesticides or fertilizers if rain is expected within 48 hours or if wind speeds are above 5 mph.
- Do not spray pesticides within 100 feet of waterways.
- Fertilizers should be worked into the soil rather than dumped onto the surface.
- If fertilizer is spilled on the pavement or sidewalk, sweep it up immediately and place it back in the container.

## *Building Maintenance*

- Never allow washwater, sweepings or sediment to enter the storm drain.
- Sweep up dry spills and use cat litter, towels or similar materials to absorb wet spills. Dispose of it in the trash.
- If you wash your building, sidewalk or parking lot, you **must** contain the water. Use a shop vac to collect the water and contact your city or sanitation agency for proper disposal information. Do not let water enter the street, gutter or storm drain.
- Use drop cloths underneath outdoor painting, scraping, and sandblasting work, and properly dispose of materials in the trash.
- Use a ground cloth or oversized tub for mixing paint and cleaning tools.
- Use a damp mop or broom to clean floors.
- Cover dumpsters to keep insects, animals, rainwater and sand from entering. Keep the area around the dumpster clear of trash and debris. Do not overfill the dumpster.
- Call your trash hauler to replace leaking dumpsters.
- Do not dump any toxic substance or liquid waste on the pavement, the ground, or near a storm drain. Even materials that seem harmless such as latex paint or biodegradable cleaners can damage the environment.

**NEVER DISPOSE OF ANYTHING IN THE STORM DRAIN.**

- Recycle paints, solvents and other materials. For more information about recycling and collection centers, visit **www.oclandfills.com**.
- Store materials indoors or under cover and away from storm drains.
- Use a construction and demolition recycling company to recycle lumber, paper, cardboard, metals, masonry, carpet, plastic, pipes, drywall, rocks, dirt, and green waste. For a listing of construction and demolition recycling locations in your area, visit **www.ciwmb.ca.gov/recycle.**
- Properly label materials. Familiarize employees with Material Safety Data Sheets.

PROJECT Pollution PREVENTION

Clean beaches and healthy creeks, rivers, bays, and ocean are important to Orange County. However, many common activities can lead to water pollution if you're not careful. Materials and excess concrete or mortar can be blown or washed into the storm drains that flow to the ocean. Unlike water in sanitary sewers (from sinks and toilets), water in storm drains is not treated before entering our waterways.

You would never throw building materials into the ocean, so don't let them enter the storm drains. Follow these easy tips to help prevent water pollution.

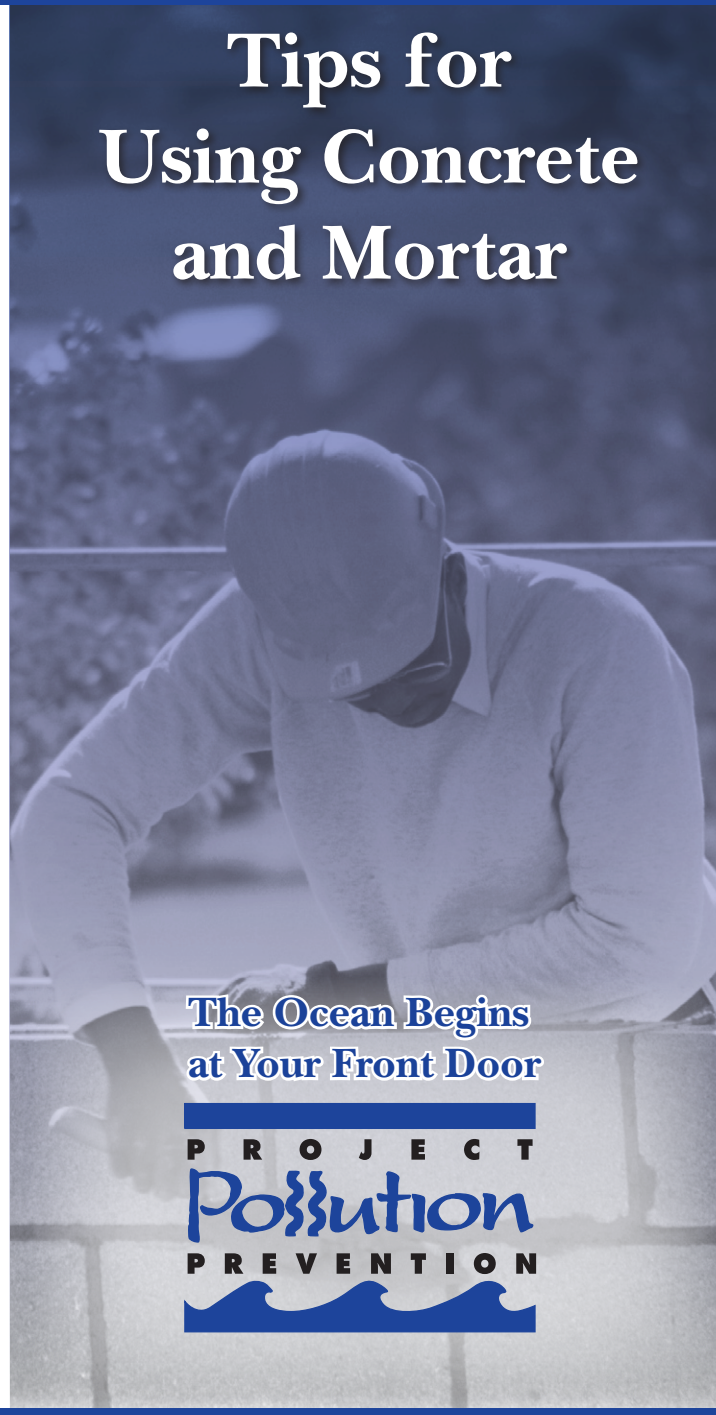
For more information,
please call the
**Orange County Stormwater Program**
at **1-877-89-SPILL** (1-877-897-7455)
or visit
**www.ocwatersheds.com.**

To report a spill,
call the
**Orange County 24-Hour**
**Water Pollution Reporting Hotline**
at **1-877-89-SPILL** (1-877-897-7455).

**For emergencies, dial 911.**

The Tips contained in this brochure provide useful information about how you can keep materials and washwater from entering the storm drain system. If you have other suggestions for how water and materials may be contained, please contact your city's stormwater representative or call the Orange County Stormwater Program.

# Tips for Using Concrete and Mortar



**The Ocean Begins at Your Front Door**

PROJECT Pollution PREVENTION

# APPENDIX J

# NOISE CALCULATIONS

**EAST P.L./Del Taco Parking**

| Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:04 | 59.8 | 64.9 | 53.8 |
| 11:05 | 59.4 | 65.6 | 54.9 |
| 11:06 | 58.5 | 62.1 | 53.1 |
| 11:07 | 66.1 | 78.5 | 55.7 |
| 11:08 | 59.7 | 63.5 | 56.5 |
| 11:09 | 57.8 | 60.8 | 55.2 |
| 11:10 | 57.4 | 62.4 | 53.9 |
| 11:11 | 58.0 | 62.7 | 54.9 |
| 11:12 | 55.5 | 59.9 | 52.3 |
| 11:13 | 58.7 | 63.1 | 53.2 |
| 11:14 | 58.1 | 63.1 | 52.0 |
| 11:15 | 58.1 | 62.9 | 54.1 |
| 11:16 | 58.1 | 66.4 | 53.5 |
| 11:17 | 57.7 | 62.7 | 53.4 |
| 11:18 | 59.1 | 62.6 | 54.6 |
| 11:19 | 56.3 | 60.4 | 53.4 |
| 11:20 | 59.1 | 62.8 | 52.5 |
| 11:21 | 58.4 | 65.0 | 54.2 |
| 11:22 | 59.2 | 67.9 | 53.6 |
| 11:23 | 58.2 | 62.2 | 54.1 |
| 11:24 | 59.6 | 64.3 | 54.9 |
| 11:25 | 57.2 | 61.2 | 53.8 |
| 11:26 | 58.3 | 62.1 | 55.9 |
| 11:27 | 58.6 | 64.5 | 54.9 |
| 11:28 | 59.3 | 64.1 | 54.8 |
| 11:29 | 56.5 | 62.1 | 52.4 |
| 11:30 | 57.2 | 62.6 | 51.6 |
| 11:31 | 59.1 | 65.1 | 55.3 |
| 11:32 | 58.5 | 62.8 | 52.4 |
| 11:33 | 57.9 | 62.1 | 53.9 |
| 11:34 | 61.4 | 72.0 | 53.1 |

| 15 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:04 | 59.6 | 78.5 | 52.0 |
| 11:19 | 58.3 | 67.9 | 51.6 |

| 30 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:04 | 59.0 | 78.5 | 51.6 |

**NORTH P.L./Stater Bros Alleyway**

| Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:43 | 54.5 | 58.0 | 52.8 |
| 11:44 | 58.3 | 69.6 | 52.7 |
| 11:45 | 54.4 | 60.1 | 51.7 |
| 11:46 | 57.4 | 61.6 | 53.1 |
| 11:47 | 54.6 | 58.1 | 52.8 |
| 11:48 | 54.3 | 58.3 | 52.8 |
| 11:49 | 52.7 | 54.6 | 51.2 |
| 11:50 | 54.4 | 64.8 | 51.7 |
| 11:51 | 55.2 | 62.7 | 50.8 |
| 11:52 | 56.6 | 62.8 | 50.2 |
| 11:53 | 58.1 | 62.5 | 50.9 |
| 11:54 | 60.7 | 73.6 | 50.0 |
| 11:55 | 52.7 | 56.0 | 49.6 |
| 11:56 | 56.0 | 67.6 | 47.9 |
| 11:57 | 56.0 | 59.3 | 51.6 |
| 11:58 | 55.4 | 60.8 | 50.5 |
| 11:59 | 55.0 | 59.9 | 50.5 |
| 12:00 | 58.7 | 62.3 | 54.6 |
| 12:01 | 55.3 | 60.0 | 52.0 |
| 12:02 | 54.3 | 57.1 | 52.5 |
| 12:03 | 52.9 | 54.2 | 51.6 |
| 12:04 | 51.9 | 53.8 | 50.3 |
| 12:05 | 52.0 | 54.1 | 50.2 |
| 12:06 | 55.1 | 61.1 | 50.6 |
| 12:07 | 52.3 | 55.5 | 50.2 |
| 12:08 | 57.0 | 67.7 | 49.7 |
| 12:09 | 54.1 | 60.1 | 50.1 |
| 12:10 | 53.4 | 58.2 | 50.5 |
| 12:11 | 52.8 | 54.6 | 51.1 |
| 12:12 | 52.6 | 54.8 | 50.7 |
| 12:13 | 48.1 | 53.7 | 51.7 |

| 15 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:43 | 56.3 | 73.6 | 47.9 |
| 11:58 | 54.6 | 67.7 | 49.7 |

| 30 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 11:43 | 55.5 | 73.6 | 47.9 |

**WEST P.L./Residential Parking**

| Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:19 | 52.5 | 67.7 | 50.1 |
| 12:20 | 52.8 | 56.2 | 49.1 |
| 12:21 | 50.4 | 54.1 | 47.8 |
| 12:22 | 53.9 | 63.1 | 47.8 |
| 12:23 | 51.8 | 57.8 | 46.6 |
| 12:24 | 53.4 | 57.6 | 49.6 |
| 12:25 | 52.4 | 59.5 | 48.1 |
| 12:26 | 55.5 | 58.8 | 49.8 |
| 12:27 | 59.0 | 67.3 | 50.5 |
| 12:28 | 54.1 | 57.3 | 51.0 |
| 12:29 | 52.6 | 61.5 | 48.6 |
| 12:30 | 54.1 | 57.8 | 49.0 |
| 12:31 | 52.9 | 57.8 | 47.5 |
| 12:32 | 56.1 | 71.4 | 47.7 |
| 12:33 | 54.5 | 62.3 | 49.6 |
| 12:34 | 52.9 | 56.3 | 48.3 |
| 12:35 | 52.4 | 58.3 | 48.3 |
| 12:36 | 52.9 | 58.0 | 47.7 |
| 12:37 | 53.5 | 58.3 | 48.4 |
| 12:38 | 52.7 | 59.2 | 46.9 |
| 12:39 | 56.5 | 62.3 | 47.9 |
| 12:40 | 53.1 | 61.0 | 48.1 |
| 12:41 | 59.2 | 65.6 | 49.4 |
| 12:42 | 53.0 | 56.1 | 49.7 |
| 12:43 | 54.9 | 60.0 | 51.1 |
| 12:44 | 58.0 | 67.5 | 49.7 |
| 12:45 | 54.3 | 62.4 | 49.3 |
| 12:46 | 52.2 | 54.9 | 49.3 |
| 12:47 | 56.3 | 64.9 | 49.4 |
| 12:48 | 52.4 | 55.6 | 49.6 |
| 12:49 | 41.2 | 56.4 | 53.0 |

| 15 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:19 | 54.3 | 71.4 | 46.6 |
| 12:34 | 54.9 | 67.5 | 46.9 |

| 30 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:19 | 54.6 | 71.4 | 46.6 |

**SOUTH P.L./Residential Parking**

| Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:53 | 65.0 | 73.0 | 52.6 |
| 12:54 | 59.8 | 68.0 | 48.4 |
| 12:55 | 63.7 | 69.4 | 48.6 |
| 12:56 | 62.9 | 69.0 | 49.6 |
| 12:57 | 59.9 | 68.0 | 48.6 |
| 12:58 | 66.8 | 75.6 | 52.7 |
| 12:59 | 60.7 | 68.0 | 48.5 |
| 13:00 | 63.9 | 72.6 | 49.1 |
| 13:01 | 63.0 | 73.8 | 53.5 |
| 13:02 | 61.5 | 69.6 | 49.6 |
| 13:03 | 62.4 | 67.2 | 54.9 |
| 13:04 | 59.8 | 68.9 | 51.2 |
| 13:05 | 64.6 | 73.0 | 53.1 |
| 13:06 | 62.6 | 68.0 | 50.9 |
| 13:07 | 64.9 | 69.8 | 52.9 |
| 13:08 | 63.3 | 71.2 | 49.6 |
| 13:09 | 63.2 | 71.6 | 48.2 |
| 13:10 | 63.8 | 70.3 | 51.3 |
| 13:11 | 64.3 | 73.0 | 51.8 |
| 13:12 | 60.9 | 68.1 | 50.5 |
| 13:13 | 65.1 | 74.0 | 50.1 |
| 13:14 | 61.5 | 69.3 | 49.3 |
| 13:15 | 66.4 | 74.2 | 49.9 |
| 13:16 | 62.8 | 70.4 | 48.3 |
| 13:17 | 64.6 | 71.6 | 54.0 |
| 13:18 | 63.2 | 71.1 | 52.4 |
| 13:19 | 61.6 | 67.7 | 48.4 |
| 13:20 | 62.2 | 70.5 | 49.1 |
| 13:21 | 63.9 | 71.8 | 48.1 |
| 13:22 | 63.1 | 69.7 | 55.8 |
| 13:23 | 36.2 | 60.3 | 57.4 |

| 15 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:53 | 63.2 | 75.6 | 48.4 |
| 13:08 | 63.6 | 74.2 | 48.1 |

| 30 Minute Resolution | | | |
|---|---|---|---|
| Time | Leq | Lmax | Lmin |
| 12:53 | 63.4 | 75.6 | 48.1 |

## Construction Generated Noise

| Building Type | | Distance (ft) |
|---|---|---|
| **Construction Noise at 50 Feet (dBA Leq)** | | 50 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 84 | |
| Excavation | 79 | |
| Foundation Construction | 78 | |
| Building Construction | 75 | |
| Finishing and Site Cleanup | 75 | |

| | | |
|---|---|---|
| **North - Residential Uses** | | |
| **Maximum Construction Noise (dBA Leq)** | | 200 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 72 | |
| Excavation (Site Preparation) | 67 | |
| Foundation Construction | 66 | |
| Building Construction | 63 | |
| Paving | 63 | |
| **Average Construction Noise (dBA Leq)** | | 325 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 68 | |
| Excavation (Site Preparation) | 63 | |
| Foundation Construction | 62 | |
| Building Construction | 59 | |
| Paving | 59 | |

| | | |
|---|---|---|
| **West - CHP** | | |
| **Maximum Construction Noise (dBA Leq)** | | 180 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 73 | |
| Excavation (Site Preparation) | 68 | |
| Foundation Construction | 67 | |
| Building Construction | 64 | |
| Paving | 64 | |
| **Average Construction Noise (dBA Leq)** | | 300 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 68 | |
| Excavation (Site Preparation) | 63 | |
| Foundation Construction | 62 | |
| Building Construction | 59 | |
| Paving | 59 | |

| | | |
|---|---|---|
| **South - Nearest Residential** | | |
| **Maximum Construction Noise (dBA Leq)** | | 80 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 80 | |
| Excavation (Site Preparation) | 75 | |
| Foundation Construction | 74 | |
| Building Construction | 71 | |
| Paving | 71 | |
| **Average Construction Noise (dBA Leq)** | | 170 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 73 | |
| Excavation (Site Preparation) | 68 | |
| Foundation Construction | 67 | |
| Building Construction | 64 | |
| Paving | 64 | |

| | | |
|---|---|---|
| **East - Restaurant and Parking Lot Uses** | | |
| **Maximum Construction Noise (dBA Leq)** | | 60 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 82 | |
| Excavation (Site Preparation) | 77 | |
| Foundation Construction | 76 | |
| Building Construction | 73 | |
| Paving | 73 | |
| **Average Construction Noise (dBA Leq)** | | 155 |
| **Construction Phase** | **Minimum Required Equipment in Use[1]** | |
| Ground Clearing/Demolition | 74 | |
| Excavation (Site Preparation) | 69 | |
| Foundation Construction | 68 | |
| Building Construction | 65 | |
| Paving | 65 | |

Source: Bolt, Beranek and Newman, "Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances," prepared for the USEPA, December 31, 1971. Based on analysis for Office Building, Hotel, Hospital, School, and Public Works.

## Construction Generated Vibration

| **North - Retail** | | Closest Distance (feet): | 32 |
|---|---|---|---|
| | Approximate RMS a<br>66 | Approximate RMS<br>73.000 | |
| Equipment | inch/second | inch/second | |
| Vibratory roller | 0.21 | 0.145 | |
| Large bulldozer | 0.089 | 0.061 | |
| Small bulldozer | 0.003 | 0.002 | |
| Jackhammer | 0.035 | 0.024 | |
| Loaded trucks | 0.076 | 0.052 | |
| | Criteria | 0.250 | |
| **West - CHP** | | Closest Distance (feet): | 175 |
| | **Approximate RMS a**<br>Velocity at 25 ft, | Approximate RMS<br>Velocity Level, | |
| Equipment | inch/second | inch/second | |
| Vibratory roller | 0.21 | 0.011 | |
| Large bulldozer | 0.089 | 0.005 | |
| Small bulldozer | 0.003 | 0.000 | |
| Jackhammer | 0.035 | 0.002 | |
| Loaded trucks | 0.076 | 0.004 | |
| | Criteria | 0.250 | |
| **South - Nearest Residential** | | Closest Distance (feet): | 100 |
| | **Approximate RMS a**<br>Velocity at 25 ft, | Approximate RMS<br>Velocity Level, | |
| Equipment | inch/second | inch/second | |
| Vibratory roller | 0.21 | 0.026 | |
| Large bulldozer | 0.089 | 0.011 | |
| Small bulldozer | 0.003 | 0.000 | |
| Jackhammer | 0.035 | 0.004 | |
| Loaded trucks | 0.076 | 0.010 | |
| | Criteria | 0.250 | |
| **East - Restaurant and Parking Lot Uses** | | Closest Distance (feet): | 46 |
| | Approximate RMS a<br>Velocity at 25 ft, | Approximate RMS<br>Velocity Level, | |
| Equipment | inch/second | inch/second | |
| Vibratory roller | 0.21 | 0.084 | |
| Large bulldozer | 0.089 | 0.036 | |
| Small bulldozer | 0.003 | 0.001 | |
| Jackhammer | 0.035 | 0.014 | |
| Loaded trucks | 0.076 | 0.030 | |
| | Criteria | 0.250 | |

Based on distance to nearest structure

[1.] Determined based on use of jackhammers or pneumatic hammers that may be used for pavement demolition at a distance of 25 feet

Notes: RMS velocity calculated from vibration level (VdB) using the reference of one microinch/second.

Source: Based on methodology from the United States Department of Transportation Federal Transit Administration, *Transit Noise and Vibration Impact Assessment* (2006).

## Restaurant Use Noise

| **Drive Through Window Noise** | **North - Residential Uses** | **West - Residential Use Parking** | **South - Residential Uses** | **East - Residential Uses** |
|---|---|---|---|---|
| Speaking Noise Level (dBA Leq @ 1 meter) | 66 | 66 | 66 | 66 |
| Speaking Noise Level for a Crowd | | | | |
| Utilization Factor | 50% | 50% | 50% | 50% |
| Source Receptor Distance (ft) | 460 | 90 | 230 | 650 |
| Noise Level (dBA Leq) | 19 | 33 | 25 | 16 |
| Barrier Attenuation (dBA) | | | | |
| **Noise Exposure Level (dBA Leq)** | **19** | **33** | **25** | **16** |
| | | | | |
| **Parking Lot Noise** | | | | |
| Daytime Traffic Noise Model (a.m. peak traffic) | 29 | 40 | 45 | 33 |
| Nighttime Traffic Noise Model (assumed evening traffic 25% of a.m. peak) | 25 | 36 | 41 | 29 |
| | | | | |
| **Daytime Total Noise Levels (dBA Leq)** | **30** | **41** | **45** | **33** |
| City Noise Limit (Daytime) | **55** | **55** | **55** | **55** |
| **Exceeds Noise Limits** | **No** | **No** | **No** | **No** |
| **Nighttime Total Noise Levels (dBA Leq)** | **26** | **38** | **41** | **29** |
| City Noise Limit (Nighttime) | 45 | 45 | 45 | 65 |
| **Exceeds Noise Limits** | **No** | **No** | **No** | **No** |

## Parking Lot Noise (Day Time)

| | North - Residential Uses | West - Residential Use Parking | South - Residential Uses | East - Residential Uses |
|---|---|---|---|---|
| Automobiles/Hour | 177 | 177 | 177 | 177 |
| Buses/Hour (Trucks/hour) | 0 | 0 | 0 | 0 |
| Leq (hourly) @ 50 ft | 55 | 55 | 55 | 55 |
| Source Receptor Distance (ft) | 540 | 150 | 150 | 600 |
| **Noise Level (dBA)** | **34** | **45** | **45** | **33** |
| Barrier Reduction | -5 | -5 | | |
| **Total Noise Level** | **29** | **40** | **45** | **33** |

Source: FTA Transit Noise and Vibration Impact Assessment, 1995.

## Parking Lot Noise (Night Time)

| | North - Residential Uses | West - Residential Use Parking | South - Residential Uses | East - Residential Uses |
|---|---|---|---|---|
| Automobiles/Hour | 65.5 | 65.5 | 65.5 | 65.5 |
| Buses/Hour (Trucks/hour) | 0 | 0 | 0 | 0 |
| Leq (hourly) @ 50 ft | 51 | 51 | 51 | 51 |
| Source Receptor Distance (ft) | 540 | 150 | 150 | 600 |
| Noise Level (dBA) | 30 | 41 | 41 | 29 |
| Barrier Reduction | -5 | -5 | | |
| Total Noise Level | 25 | 36 | 41 | 29 |

Source: FTA Transit Noise and Vibration Impact Assessment, 1995.

# McDonald's Santa Clara Avenue Traffic Noise

| Roadway Segment | Cross Street | Speed | 24-hour Traffic Volume: Existing | Future Without Project | Future With Project | Distance to CNEL from Roadway Centerline: Existing 50.0 Feet | 60 CNEL | 65 CNEL | 70 CNEL | Future No Project 50.0 Feet | 60 CNEL | 65 CNEL | 70 CNEL | Noise Level (CNEL or Ldn) at Distance from Roadway Centerline: Future With Project 50.0 Feet | 60 CNEL | 65 CNEL | 70 CNEL | Change From Existing | Change due to Project |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Santa Clara Drive | Tustin Avenue | 40 | 10,585 | 10,585 | 11,515 | 70.6 | 254 | 118 | 55 | 70.6 | 254 | 118 | 55 | 71.0 | 269 | 125 | 58 | 0.4 | 0.4 |
| Tustin Avenue | Santa Clara Drive | 40 | 35,410 | 35,410 | 36,340 | 75.8 | 568 | 264 | 122 | 75.8 | 568 | 264 | 122 | 75.9 | 578 | 268 | 125 | 0.1 | 0.1 |

Assumptions:

Simplified to 2 lanes 6.1 meters= 20.0
future 6.1 meters= 20.0
Noise path decay parameter for hard site

Calculations using methods of Federal Highway Administration *Highway Traffic Noise Prediction Model*,
December, 1978. Baseline California vehicle noise levels from Caltrans, TAN 95-03, 1995
Source of standard assumptions:

24-hour distribution of traffic volumes:
70% day (7-7), 15% evening (7-10), 15% night (10-7)
Analysis of L.A. County 24-hour traffic counts for selected arterial streets
conducted by Pat Mann for Inglewood Noise Element, 1974
Truck Mix

ARB standard fleet mix for air quality analysis
Heavy trucks for noise model includes heavy diesel tractor-trailers only
Medium trucks for noise model includes buses and bobtail trucks
Autos includes cars, vans, pickups and light trucks

# APPENDIX K

# TRANSPORTATION ANALYSIS

URBAN | CROSSROADS

# MCDONALD'S – 2109 E SANTA CLARA AVENUE

TRAFFIC ANALYSIS
DP NO. 2022-06
2109 E SANTA CLARA AVENUE, SANTA ANA, CA 92705

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| Reference Number | Agency | Date |
|---|---|---|
| 15173-02 TA Report REV | City of Santa Ana | January 4, 2023 (Revised: August 16, 2023) |

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# LIST OF ABBREVIATED TERMS

| | |
|---|---|
| (1) | Reference |
| ADT | Average Daily Traffic |
| CAMUTCD | California Manual on Uniform Traffic Control Devices |
| Caltrans | California Department of Transportation |
| CEQA | California Environmental Quality Act |
| CMP | Congestion Management Program |
| DIF | Development Impact Fee |
| E+P | Existing plus Project |
| HCM | Highway Capacity Manual |
| ICU | Intersection Capacity Utilization |
| ITE | Institute of Transportation Engineers |
| LOS | Level of Service |
| MUTCD | Manual on Uniform Traffic Control Devices |
| NP | No/Without Project |
| OCTA | Orange County Transportation Authority |
| OCTAM | Orange County Transportation Analysis Model |
| OPR | Office of Planning and Research |
| PHF | Peak Hour Factor |
| Project | McDonald's – 2109 E Santa Clara Avenue |
| sf | Square Feet |
| SHS | State Highway System |
| TA | Traffic Analysis |
| WP | With Project |
| v/c | Volume to Capacity |
| VMT | Vehicle Miles Traveled |
| vphgpl | Vehicles per Hour Green per Lane |

# 1 INTRODUCTION

This report presents the results of the Traffic Analysis (TA) for McDonald's – 2109 E Santa Clara Avenue development ("Project"), which is located at 2109 E Santa Clara Avenue in the City of Santa Ana, as shown on Exhibit 1-1. The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with the City's General Plan level of service goals and policies. This TA has been prepared in accordance with the City of Santa Ana's adopted City of Santa Ana Traffic Impact Study Guidelines (2019) and through consultation with City of Santa Ana staff during the scoping process. (1) The Project traffic study scoping agreement is provided in Appendix 1.1 of this TA, which has been reviewed by the City of Santa Ana.

## 1.1 SUMMARY OF FINDINGS

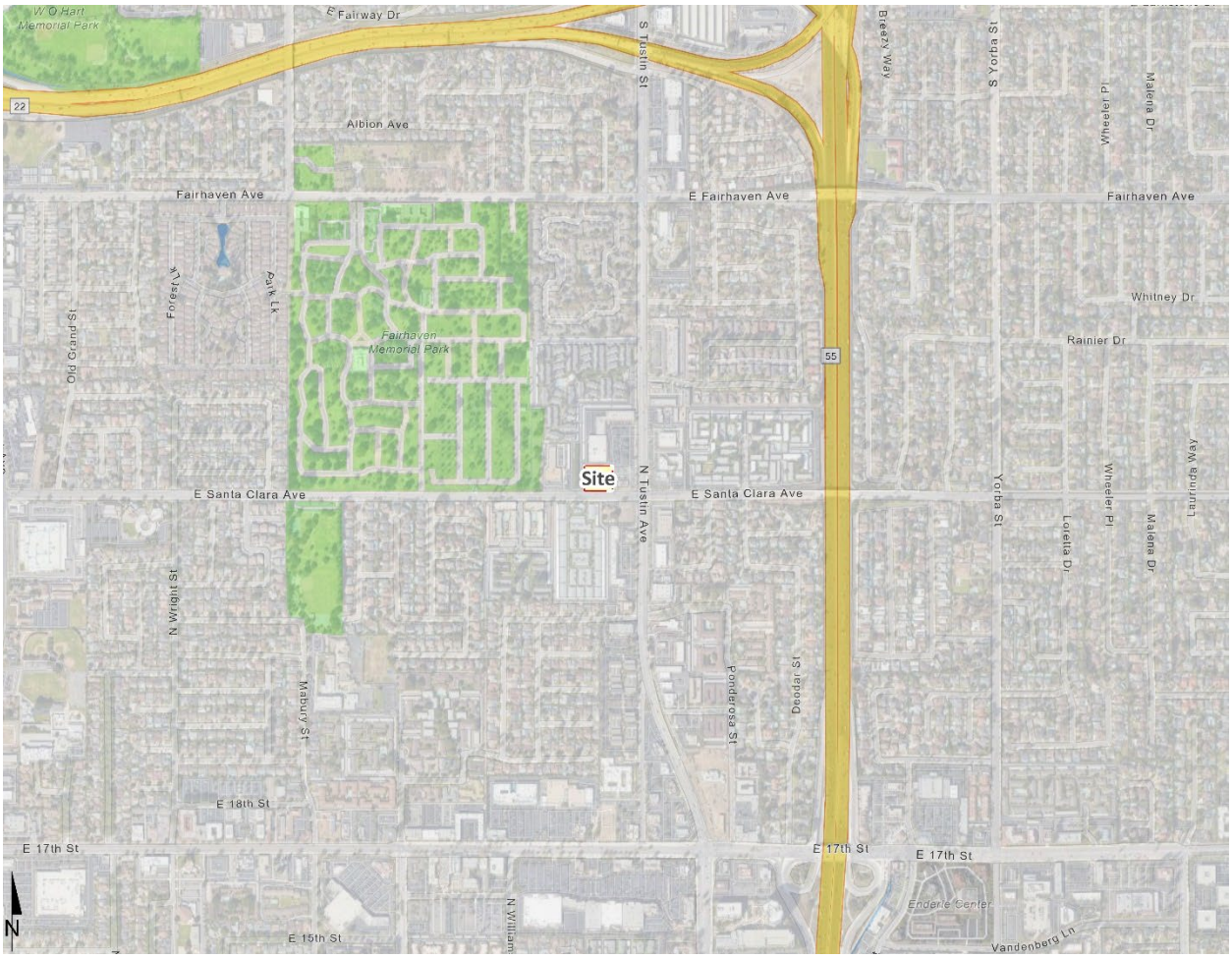
The Project is to construct the following improvements as design features in conjunction with development of the site:

- Project to maintain existing traffic controls and configuration at Project driveways. On-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Additional details and intersection lane geometrics are provided in Section 1.6 *Recommendations* of this report. The Project Applicant's responsibility for the Project's contributions towards deficient off-site intersections is fulfilled through payment into pre-existing fee programs (if applicable) that would be assigned to the future construction of any future local/regional improvement needs. The Project Applicant would be required to pay requisite fees consistent with the City's requirements (see Section 9 *Local and Regional Funding Mechanisms*).

The drive-thru analysis suggests that the Project provides stacking accommodations for approximately 16 vehicles within the drive-thru. Our evaluation indicates that the proposed drive-thru lane will provide sufficient capacity to accommodate average and peak vehicle demands for the proposed Project. Additional details on the drive-thru analysis are provided in Section 8 *Drive-thru Evaluation*.

## EXHIBIT 1-1: LOCATION MAP



## 1.2 PROJECT OVERVIEW

The proposed Project consists of developing a 3,975 square foot (SF) McDonald's restaurant with a drive-thru window. The drive-through restaurant will be accommodated by redeveloping the existing residential uses. The Project is proposed to utilize two existing driveways: one on Tustin Avenue and one on Santa Clara Avenue. A preliminary site plan of which the traffic study will be based on is shown on Exhibit 1-2.

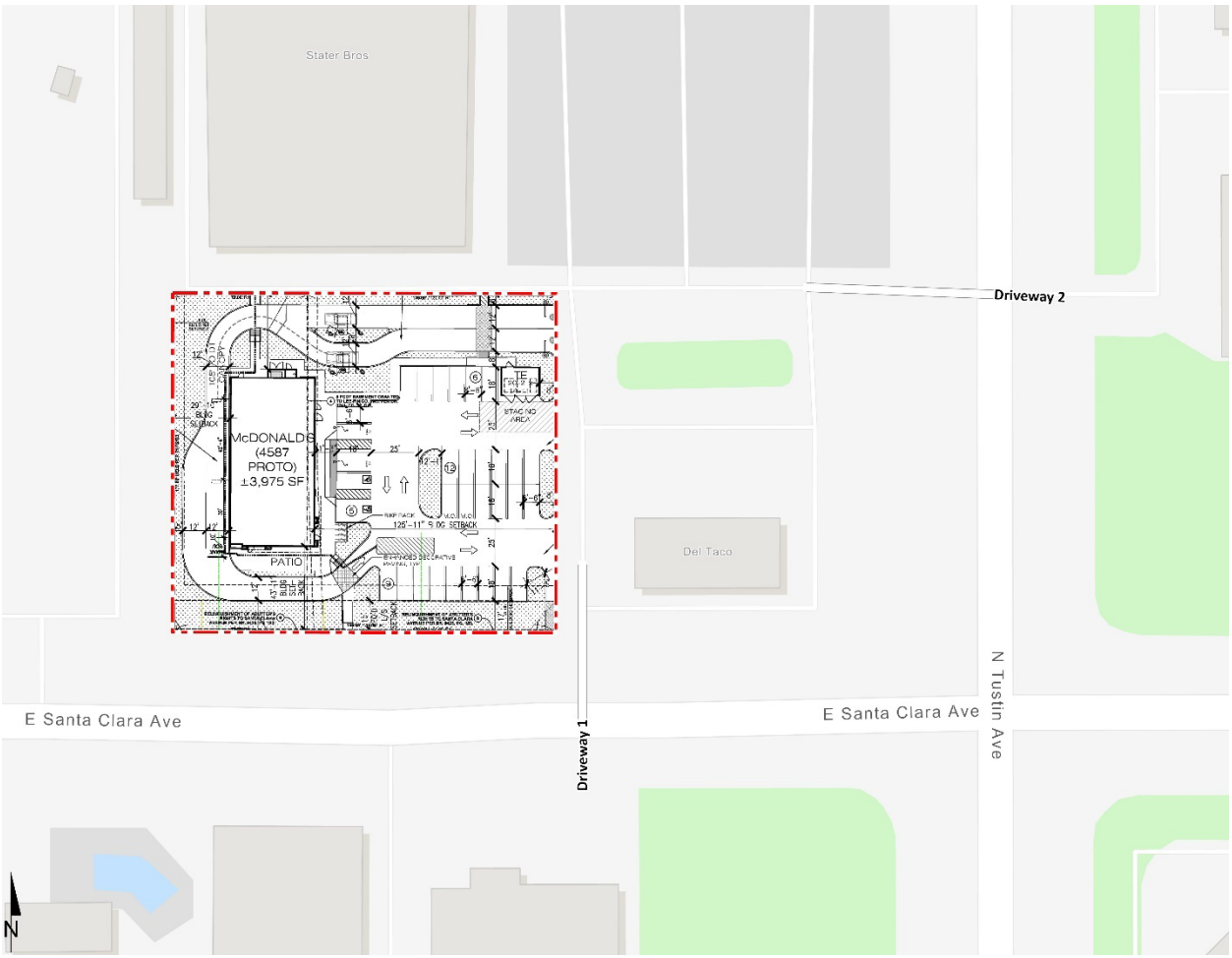
In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021). (2) The Project is anticipated to generate a net total of 930 two-way trips per day with 89 AM peak hour trips and 67 PM peak hour trips. The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

## 1.3 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2022)
- Existing plus Project (E+P)
- Opening Year Cumulative (2023) Without Project
- Opening Year Cumulative (2023) With Project
- Horizon Year (2040) Without Project
- Horizon Year (2040) With Project

**EXHIBIT 1-2: PRELIMINARY SITE PLAN**



### 1.3.1 EXISTING (2022) CONDITIONS

Information for Existing (2022) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared. For a detailed discussion on the existing traffic counts, see Section 3.5 *Existing Traffic Counts*.

### 1.3.2 EXISING PLUS PROJECT CONDITIONS

The Existing plus Project (E+P) conditions analysis determines the potential circulation system deficiencies based on a comparison of the E+P traffic conditions to Existing conditions. The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. Cumulative development projects and ambient growth are not included for E+P traffic conditions.

### 1.3.3 OPENING YEAR CUMULATIVE (2023) CONDITIONS

The Opening Year Cumulative (2023) traffic conditions analysis determines the potential near-term cumulative circulation system deficiencies. The roadway network is similar to Existing conditions except for new connections to be constructed by the Project. To account for background traffic growth, an ambient growth factor from Existing (2022) conditions of 1.0% (1 percent per year over 1 year) is included for Opening Year Cumulative (2023) traffic conditions. Conservatively, this TA estimates the area ambient traffic growth and then adds traffic generated by other known or probable related projects. These related projects are at least in part already accounted for in the assumed ambient growth rates; and some of these related projects may not be implemented and operational within the 2023 Opening Year time frame assumed for the Project. The resulting traffic growth utilized in the TA (ambient growth factor plus traffic generated by related projects) would therefore tend to overstate rather than understate background cumulative traffic deficiencies under 2023 traffic conditions.

### 1.3.4 HORIZON YEAR (2040) CONDITIONS

Traffic projections for Horizon Year (2040) conditions were derived from the Orange County Transportation Analysis Model (OCTAM) using accepted procedures for model forecast refinement and smoothing. The Horizon Year conditions analysis will be utilized to determine if improvements funded through regional transportation mitigation fee programs can accommodate the long-range cumulative traffic at the target Level of Service (LOS) identified in the City of Santa Ana (lead agency) General Plan. Each of the applicable transportation fee programs are discussed in more detail in Section 9 *Local and Regional Funding Mechanisms*.

## 1.4 STUDY AREA

To ensure that this TA satisfies the City of Santa Ana's traffic study requirements, Urban Crossroads, Inc. prepared a Project traffic study scoping package for review by City of Santa Ana staff prior to the preparation of this report. This agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology. The agreement provided to the City is included in Appendix 1.1 of this TA.

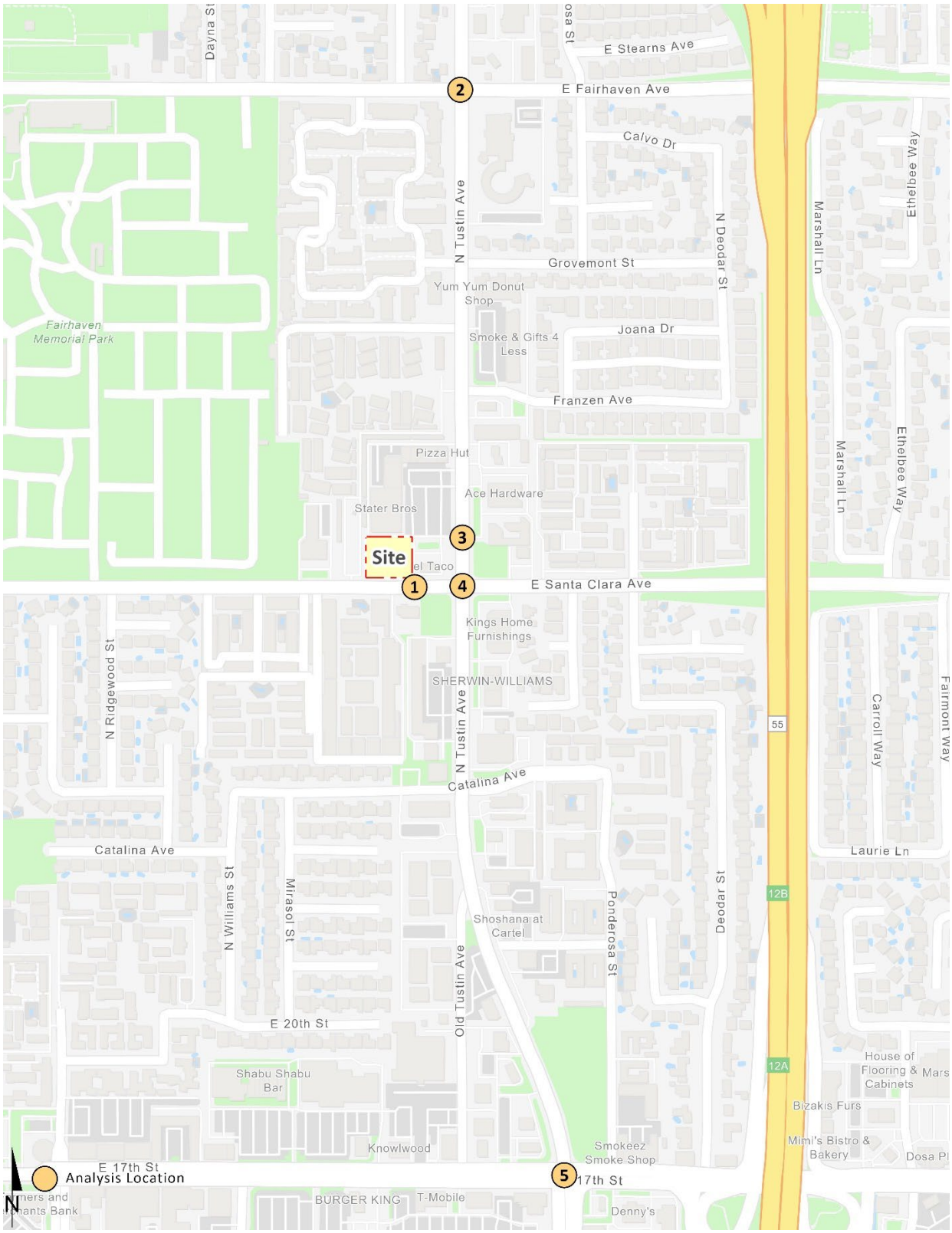
The 5 study area intersections shown on Exhibit 1-3 and listed in Table 1-1 were selected for evaluation in this TA based on consultation with City of Santa Ana staff. At a minimum, the study area includes intersections where the Project is anticipated to contribute 50 or more peak hour trips per the City's Guidelines. (1) The "50 peak hour trip" criterion represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. The 50 peak hour trip criterion is a traffic engineering rule of thumb that is accepted and used throughout the City for the purposes of estimating a potential area of influence (i.e., study area). Additional study area intersections were requested by the City of Santa Ana to be included with this traffic study.

**TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS**

| # | Intersection | Jurisdiction | Signalized? |
|---|---|---|---|
| 1 | Driveway 1 & Santa Clara Av. | Santa Ana | No |
| 2 | Tustin Av. & Fairhaven Av.* | Santa Ana, Orange | Yes |
| 3 | Tustin Av. & Driveway 2 | Santa Ana | No |
| 4 | Tustin Av. & Santa Clara Av.* | Santa Ana | Yes |
| 5 | Tustin Av. & 17th St.* | Santa Ana | Yes |

* Requested by the City of Santa Ana

**EXHIBIT 1-3: STUDY AREA**



## 1.5 DEFICIENCIES

This section provides a summary of deficiencies by analysis scenario. Section 2 *Methodologies* provides information on the methodologies used in the analysis and Section 5 *E+P Traffic Conditions*, Section 6 *Opening Year Cumulative (2023) Traffic Conditions* and Section 7 *Horizon Year (2040) Traffic Conditions* include the detailed analysis. A summary of level of service (LOS) results for all analysis scenarios is presented on Table 1-2.

### 1.5.1 EXISTING (2022) CONDITIONS

The study area intersections are currently operating at an acceptable LOS during the peak hours with exception of the following study area intersection:

- Tustin Av. & Driveway 2 (#3) – LOS E AM peak hour only

### 1.5.2 E+P CONDITIONS

No additional study area intersections are anticipated to operate at an unacceptable LOS for E+P traffic conditions, consistent with Existing traffic conditions. The addition of Project traffic would not trigger the City of Santa Ana's significance criteria.

### 1.5.3 OPENING YEAR CUMULATIVE (2023) CONDITIONS

The following study area intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2023) Without Project traffic conditions, consistent with Existing and E+P traffic conditions:

- Tustin Av. & Driveway 2 (#3) – LOS E AM peak hour

With the addition of Project traffic, no additional study area intersections are anticipated to operate at an unacceptable LOS for Opening Year Cumulative (2023) With Project traffic conditions. The addition of Project traffic would not trigger the City of Santa Ana's significance criteria.

### 1.5.4 HORIZON YEAR (2040) CONDITIONS

The following study area intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- Tustin Av. & Fairhaven Av. (#2) – LOS F AM peak hour
- Tustin Av. & Driveway 2 (#3) – LOS F AM peak hour
- Tustin Av. & Santa Clara Av. (#4) – LOS F AM peak hour
- Tustin Av. & 17th St. (#5) – LOS F AM peak hour

With the addition of Project traffic, no additional study area intersections are anticipated to operate at an unacceptable LOS for Horizon Year (2040) With Project traffic conditions. The addition of Project traffic would trigger the City of Santa Ana's significance criteria for the following intersection:

- Tustin Av. & Santa Clara Av. (#4) – the project increases traffic demand at the study intersection by 1% of capacity (ICU increase is greater than 0.010

**TABLE 1-2: SUMMARY OF LOS**

| | | Existing | | E+P | | 2023 Without Project | | 2023 With Project | | 2040 Without Project | | 2040 With Project | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| # | Intersection | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM |
| 1 | Driveway 1 & Santa Clara Av. | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D |
| 2 | Tustin Av. & Fairhaven Av. | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | F | A - D | F | A - D |
| 3 | Tustin Av. & Driveway 2 | E | A - D | F | A - D | E | A - D | F | A - D | F | A - D | F | A - D |
| 4 | Tustin Av. & Santa Clara Av. | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | F | A - D | F | A - D |
| 5 | Tustin Av. & 17th St. | A - D | A - D | A - D | A - D | A - D | A - D | A - D | A - D | F | A - D | F | A - D |

= A - D = E = F

## 1.6 RECOMMENDATIONS

### 1.6.1 SITE ACCESS RECOMMENDATIONS

Project to maintain existing traffic controls and configuration at Project driveways. On-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

### 1.6.2 OFF-SITE RECOMMENDATIONS

The improvements needed to address the cumulative deficiencies identified under Horizon Year (2040) traffic conditions for With Project conditions are summarized in Table 1-3. For those improvements listed in Table 1-3 not constructed as part of the Project, the Project Applicant's responsibility for the Project's contributions towards deficient intersections is fulfilled through payment of fair share and/or fees for the applicable pre-existing fee programs (see Section 9 *Local and Regional Funding Mechanisms)*.

**TABLE 1-3: SUMMARY OF IMPROVEMENTS**

| # | Intersection | Jurisdiction | Existing | E+P | 2023 With Project | 2040 With Project | Improvements in DIF?[1] | Project Responsibility[2] | Project Fair Share[4] |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Tustin Av. & Santa Clara Av. | Santa Ana | - None | - None | - None | - Add 2nd NB left turn lane | No | Fair Share | 4.5% |

[1] Improvements included in City of Santa Ana CIP projects

[2] Identifies the Project's responsibility to construct an improvement or contribute fair share towards the implementation of the improvements shown.

[3] Program improvements constructed by project may be eligible for fee credit, at discretion of the City. See Table 8-1 for Fair Share Calculations.

## 1.7 QUEUING ANALYSIS

The traffic modeling and signal timing optimization software package SimTraffic has been utilized to assess the queues. SimTraffic is designed to model networks of signalized and unsignalized intersections, with the primary purpose of checking and fine-tuning signal operations. SimTraffic uses the input parameters from Synchro to generate random simulations. These random simulations generated by SimTraffic have been utilized to determine the 95th percentile queue lengths observed for each applicable turn lane. A SimTraffic simulation has been recorded up to 5 times, during the weekday AM and weekday PM peak hours, and has been seeded for 15-minute periods with 60-minute recording intervals. The results of the queuing analysis worksheets for the weekday AM and PM peak hours are provided in Appendix 1.2 of this report for Horizon Year (2040) traffic conditions.

**TABLE 1-4: QUEUING ANALYSIS FOR HORIZON YEAR (2040) CONDITIONS WITH PROJECT**

| | | | | 2040 WP | | | |
|---|---|---|---|---|---|---|---|
| | | | Available Stacking | 95th % Queue (Feet) | | Acceptable? [1] | |
| # | Intersection | Movement | Distance (Feet)[2] | AM Peak | PM Peak | AM | PM |
| 1 | Driveway 1 & Santa Clara Av. | EBL | **230** | 111 | 57 | Yes | Yes |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided.

[2] An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table.

# 2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with City of Santa Ana's and City of Orange's Guidelines. (1) (3)

## 2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors, such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

## 2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (4) The HCM uses different procedures depending on the type of intersection control. In comparison, the Intersection Capacity Utilization (ICU) methodology expresses the LOS at a signalized intersection in terms of volume-to-capacity ratio (v/c). (5)

### 2.2.1 SIGNALIZED INTERSECTIONS

The City of Santa Ana and City of Orange requires signalized intersection operations analysis based on the methodology described in the ICU for signalized intersections and HCM for unsignalized intersections. (4) (5) ICU LOS operations are based on an intersection's intersection capacity per the ICU methodology. Signalized intersections located within the City of Santa Ana have been analyzed using Traffix (Version 8). The ICU methodology is utilized at signalized intersections only. A minimum clearance interval of 0.05 in association with lane capacities of 1,600 vehicles per hour of green time for turn lanes and 1,700 vehicles per hour of green time for through lanes were assumed for the ICU calculations.

**TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS FOR ICU**

| Description | ICU | Level of Service [1] |
|---|---|---|
| Little or no capacity deficiencies. | < 0.60 | A |
| Short-term capacity deficiencies. | 0.61 – 0.70 | B |
| Average capacity deficiencies. | 0.71 – 0.80 | C |
| Long-term capacity deficiencies. | 0.81 – 0.90 | D |
| Very high capacity deficiencies. | 0.91 – 1.00 | E |
| Extremely high capacity deficiencies, with intersection capacity exceeded. | > 1.00 | F |

[1] Source: County of Orange CMP, ICU Methodology

### 2.2.2 UNSIGNALIZED INTERSECTIONS

The City of Santa Ana requires the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (4) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2). At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Delay for the intersection is reported for the worst individual movement at a two-way stop-controlled intersection. For all-way stop controlled intersections, LOS is computed for the intersection as a whole (average delay).

**TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS**

| Description | Average Control Delay (Seconds), V/C ≤ 1.0 | Level of Service, V/C ≤ 1.0[1] |
|---|---|---|
| Little or no delays. | 0 to 10.00 | A |
| Short traffic delays. | 10.01 to 15.00 | B |
| Average traffic delays. | 15.01 to 25.00 | C |
| Long traffic delays. | 25.01 to 35.00 | D |
| Very long traffic delays. | 35.01 to 50.00 | E |
| Extreme traffic delays with intersection capacity exceeded. | > 50.00 | F |

Source: HCM, 6th Edition

[1] If V/C is greater than 1.0 then LOS is F per HCM.

## 2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or determine the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD). (6)

The signal warrant criteria for Existing study area intersections are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (6) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing traffic conditions and for all future analysis scenarios for existing unsignalized intersections. Warrant 3 is appropriate to use for this TA because it provides specialized warrant criteria for intersections with urban characteristics. For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection. Urban warrants have been used as posted speed limits on the major roadways with unsignalized intersections are over 40 miles per hour while urban warrants have been used where speeds are 40 miles per hour or below. Traffic signal warrant analyses were performed for the following study area intersection shown on Table 2-3:

**TABLE 2-3: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS**

| # | Intersections | Jursidiction |
|---|---|---|
| 1 | Driveway 1 & Santa Clara Av. | Santa Ana |
| 3 | Tustin Av. & Driveway 2 | Santa Ana |

The Existing conditions traffic signal warrant analysis is presented in the subsequent section, Section 3 *Area Conditions* of this report. The traffic signal warrant analyses for future conditions are presented in Section 5 *E+P Traffic Conditions*, Section 6 *Opening Year Cumulative (2023) Traffic Conditions,* and Section 7 *Horizon Year (2040) Traffic Conditions* of this report. It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

## 2.4 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

Minimum Acceptable LOS and associated definitions of intersection deficiencies has been obtained from each of the applicable surrounding jurisdictions.

### CITY OF SANTA ANA

Per the City's guidelines, the City of Santa Ana adopted LOS "D" as the maximum threshold of significance at all intersections and mid-block locations.

### CITY OF ORANGE

Per the City of Orange's General Plan Circulation Element and Growth Management Element requirements, a volume/capacity (V/C) ratio of 0.90 (LOS D) shall be the lowest acceptable Service Level at intersections following implementation of roadway improvements. Improvements required to bring intersections and roadway segments to the acceptable service levels must be identified. In order

to maintain LOS D at intersections, arterial highway links should be maintained at LOS C or better. An intersection will be deemed deficient and require improvements to achieve an acceptable LOS when the LOS is E or F (Final V/C Ratio>0.90) and the project-related increase in V/C is equal to or greater than 0.010.

## 2.5 DEFICIENCY CRITERIA

This section outlines the methodology used in this analysis related to identifying circulation system deficiencies.

### CITY OF SANTA ANA

A transportation impact on an intersection shall be deemed "significant" in accordance with the following table:

- The peak hour Level of Service (LOS) exceeds the maximum City threshold. The City of Santa Ana considers LOS D to be the minimum acceptable LOS for all intersections, except for those locations located within the City's defined major development areas, where LOS E is considered acceptable.
- The project increases traffic demand at the study intersection by 1% of capacity (ICU increase ≥ 0.010).
- At unsignalized intersections, an impact is considered to be significant if the project causes an intersection at LOS D or better to degrade to LOS E or F and the traffic signal warrant analysis determines that a signal is justified.

### CITY OF ORANGE

An intersection will be deemed deficient and require improvements to achieve an acceptable LOS when the LOS is E or F (Final V/C Ratio>0.90) and the project-related increase in V/C is equal to or greater than 0.010.

# 3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Santa Ana General Plan Mobility Element, and a review of existing peak hour intersection operations and traffic signal warrant analyses.

## 3.1 EXISTING CIRCULATION NETWORK

Pursuant to the scoping agreement with City of Santa Ana staff (Appendix 1.1), the study area includes a total of 5 existing intersections as shown previously on Exhibit 1-3. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

## 3.2 CITY OF SANTA ANA GENERAL PLAN MOBILITY ELEMENT

As noted previously, the Project site is located within the City of Santa Ana. Exhibit 3-2 shows the City of Santa Ana General Plan Mobility Element. The roadway classifications and planned (ultimate) roadway cross-sections of the major roadways within the City of Santa Ana in the vicinity of the proposed Project, as identified on the City's General Plan Mobility Element, are described subsequently.

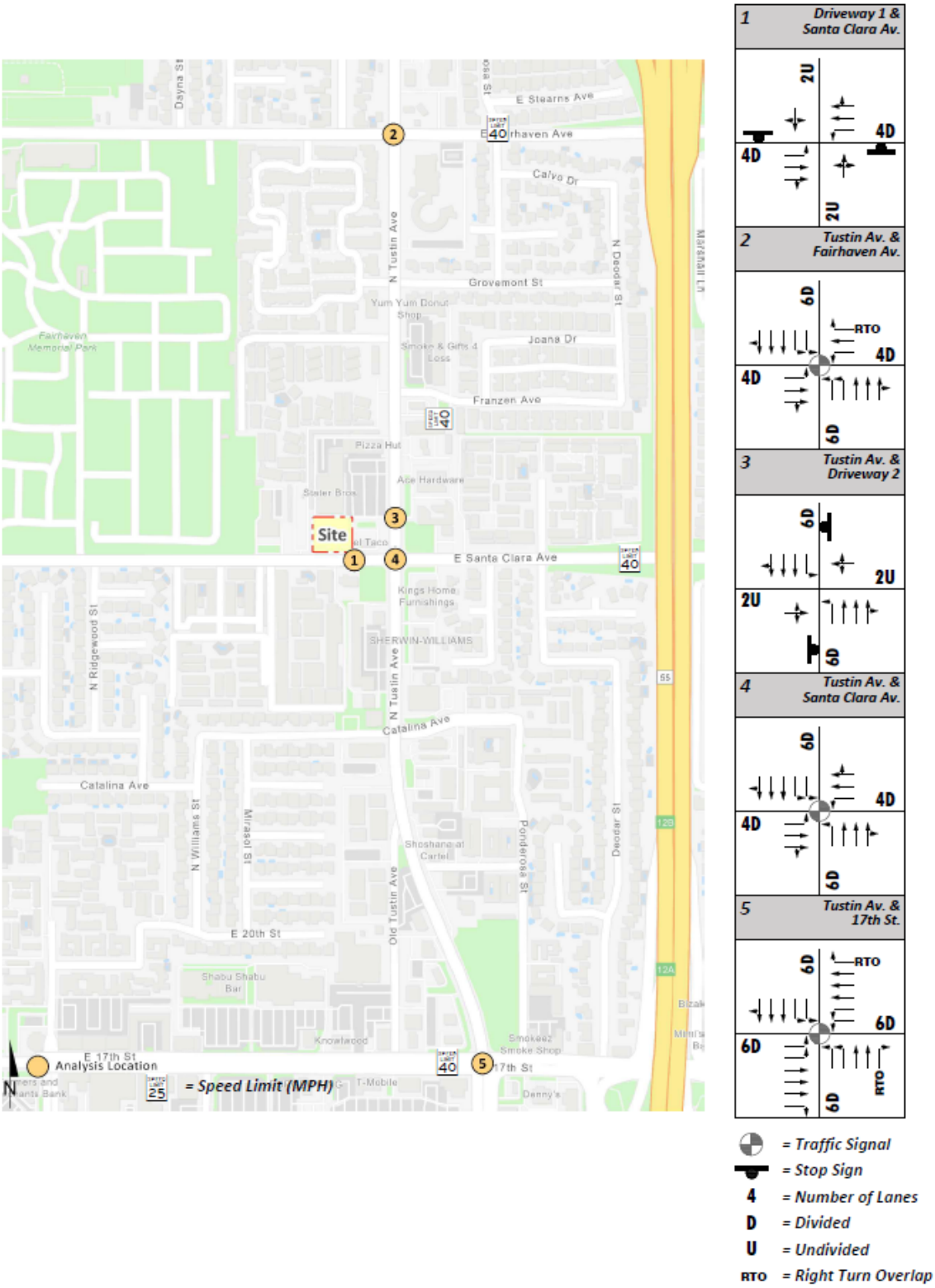
**Major Arterial.** A street with six travel lanes and a center median. Typically includes bus transit, pedestrian sidewalks, and bicycle lanes. Typical ROW: 120' / 100' curb-to-curb / 14' median / 10' sidewalk. The following study area roadways within the City of Santa Ana are classified as Major Arterials:

- Tustin Avenue
- 17th Street

**Divided Collector Arterial.** A street with two travel lanes and a continuous center two-way left turn lane, but may be divided by raised median, with an expanded right-of-way to accommodate bike lanes. Typical ROW: 80' / 64' curb-to-curb / 8' sidewalk. The following study area roadways within the City of Santa Ana are classified as Divided Collector Arterials:

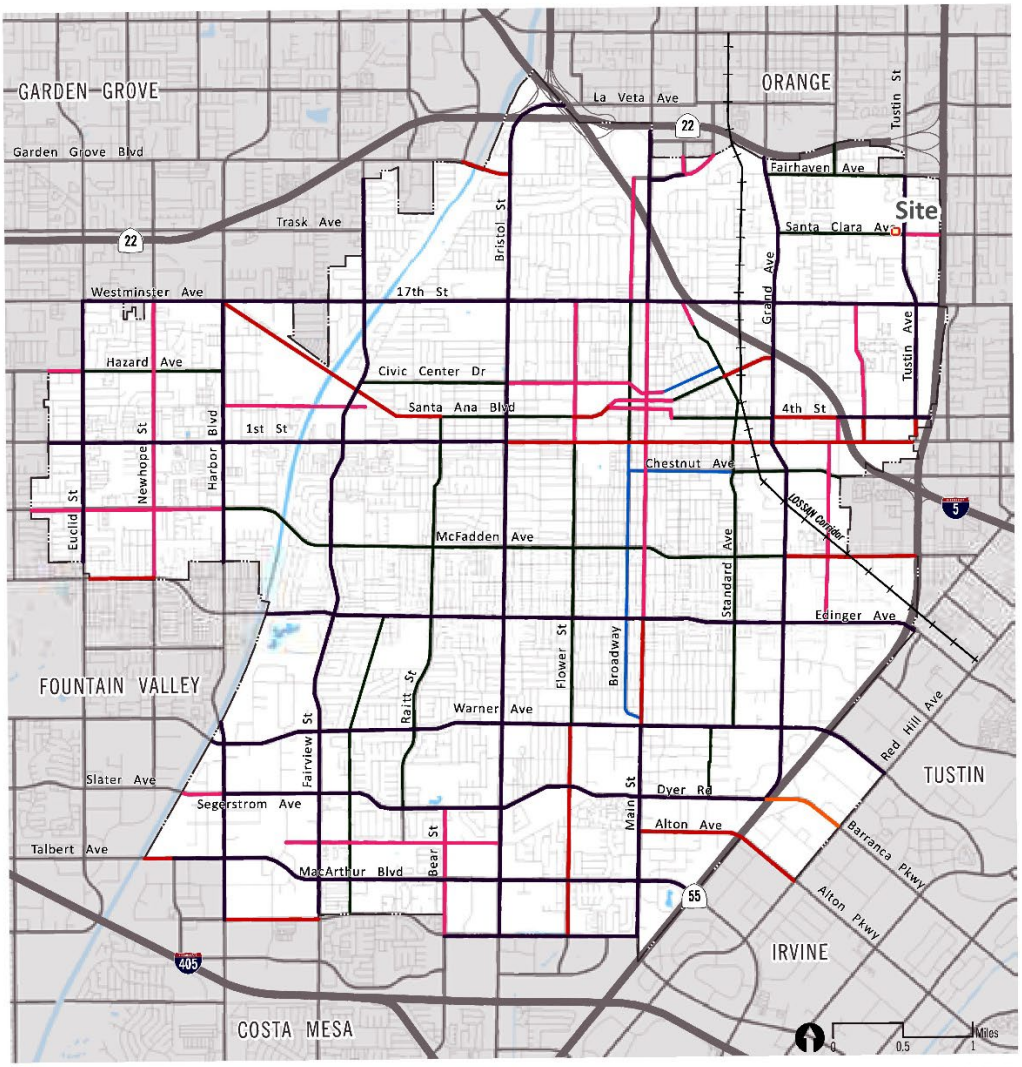
- Fairhaven Avenue
- Santa Clara Avenue

## EXHIBIT 3-1: EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS



## EXHIBIT 3-2: CITY OF SANTA ANA GENERAL PLAN MOBILITY ELEMENT

**ABOUT THE MAP.** This map displays the City's long-term plan for an integrated system of streets and highways, with classifications that correspond to the nature and purpose of each roadway. This map reflects the City's efforts to create and maintain a roadway system that fosters the safe and efficient movement of people and vehicles throughout Santa Ana. See Table M-1 for a description of each street classification. Within city limits, the thin grey lines represent local streets.




Source: OCTA Master Plan of Arterial Highways (06/20/2020) and the City of Santa Ana  Date Published: 7/12/2021

Principal Arterial
Major Arterial
Primary Arterial
Secondary Arterial
Divided Collector
Collector
Site Boundary

M 06

CITY OF SANTA ANA GENERAL PLAN

**FIGURE M-1**
**MASTER PLAN OF STREETS AND HIGHWAYS**

## 3.3 CITY OF ORANGE GENERAL PLAN CIRCULATION ELEMENT

The roadway classifications and planned (ultimate) roadway cross-sections of the major City of Orange roadways within the study area, as identified on City of Orange General Plan Circulation Element, are described subsequently. Exhibit 3-3 shows the City of Orange General Plan Circulation Element and Exhibit 3-4 illustrates the City of Orange General Plan roadway cross-sections.

## 3.4 TRANSIT SERVICE

The study area is currently served by Orange County Transportation Agency (OCTA) with bus service along Tustin Street via Route 71 and 17th Street via Route 60. There are currently two bus stops located along Route 71 on Tustin Avenue near the proposed Project. The transit services are illustrated on Exhibit 3-5. These existing transit routes that could potentially serve the site. Transit service is reviewed and updated by OCTA periodically to address ridership, budget, and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate.

## 3.5 BICYCLE & PEDESTRIAN FACILITIES

Field observations indicate active pedestrian and bicycle activity within the study area. Exhibit 3-6 illustrates the City of Santa Ana Master Plan of Bikeways, which includes existing Class II bike lanes along Santa Clara Avenue near the vicinity of the Project. A Class IV cycle track exists along Fairhaven Avenue, Tustin Avenue, and 17th Street. The City of Orange's bike network is shown on Exhibit 3-7. Existing pedestrian facilities within the study area, which include sidewalks, bus stop locations, and crosswalks are shown on Exhibit 3-8.

## 3.6 EXISTING (2022) TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in December 2022 when local schools were in session and operating on normal bell schedules. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1. Existing weekday AM and weekday PM peak hour intersection volumes are shown on Exhibit 3-9.

**EXHIBIT 3-3: CITY OF ORANGE GENERAL PLAN CIRCULATION ELEMENT**

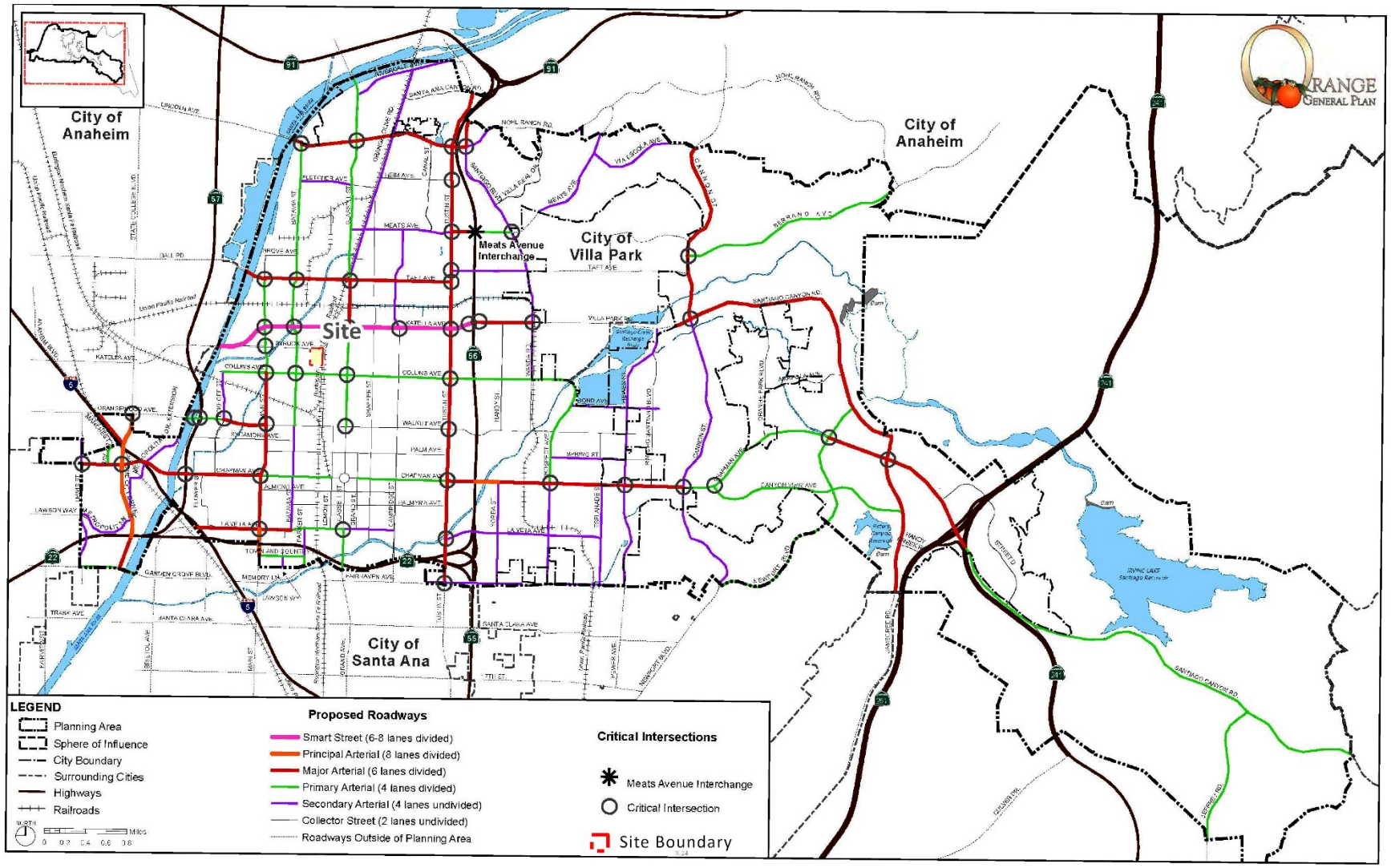


**EXHIBIT 3-4: CITY OF ORANGE GENERAL PLAN ROADWAY CROSS-SECTIONS**

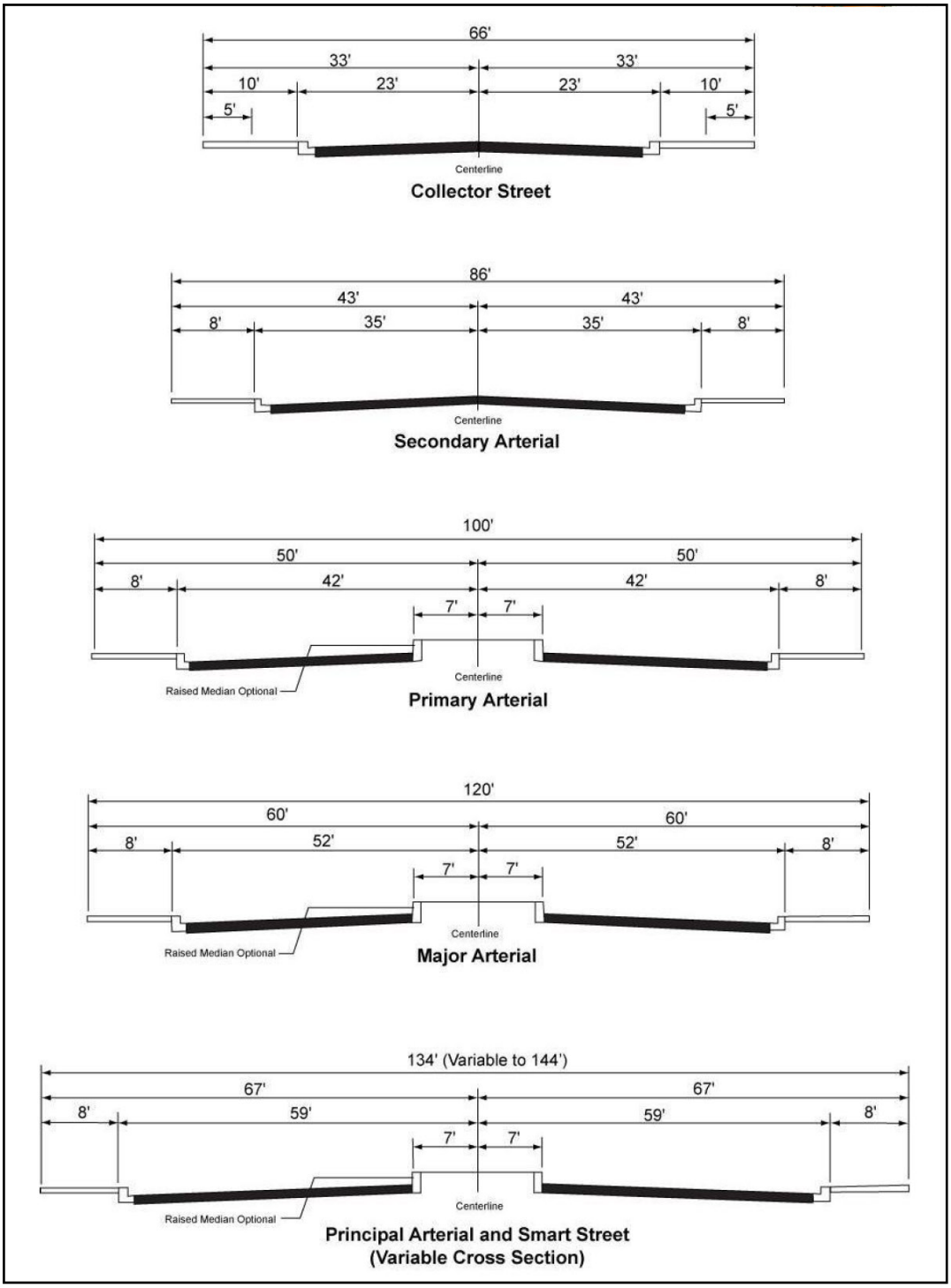
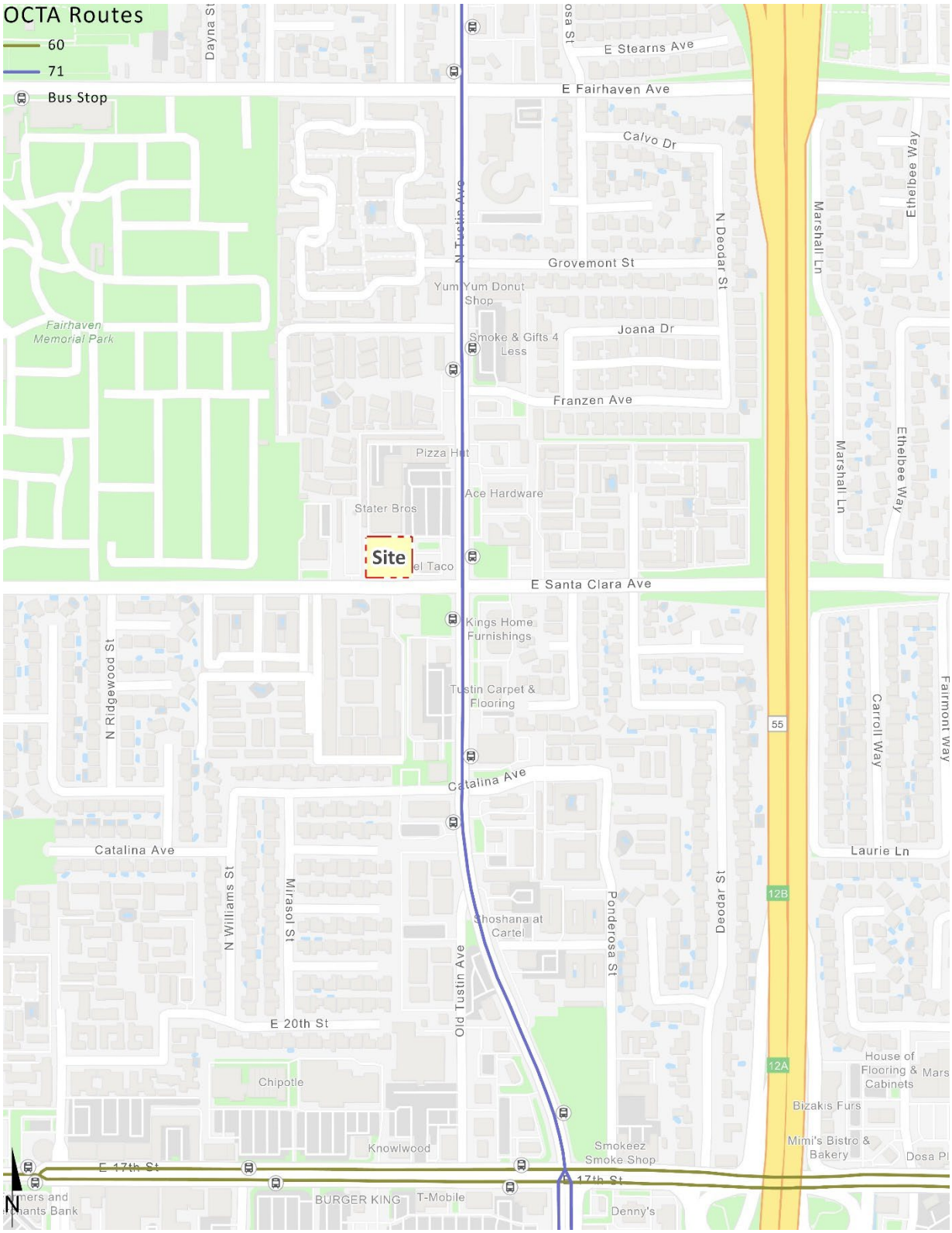
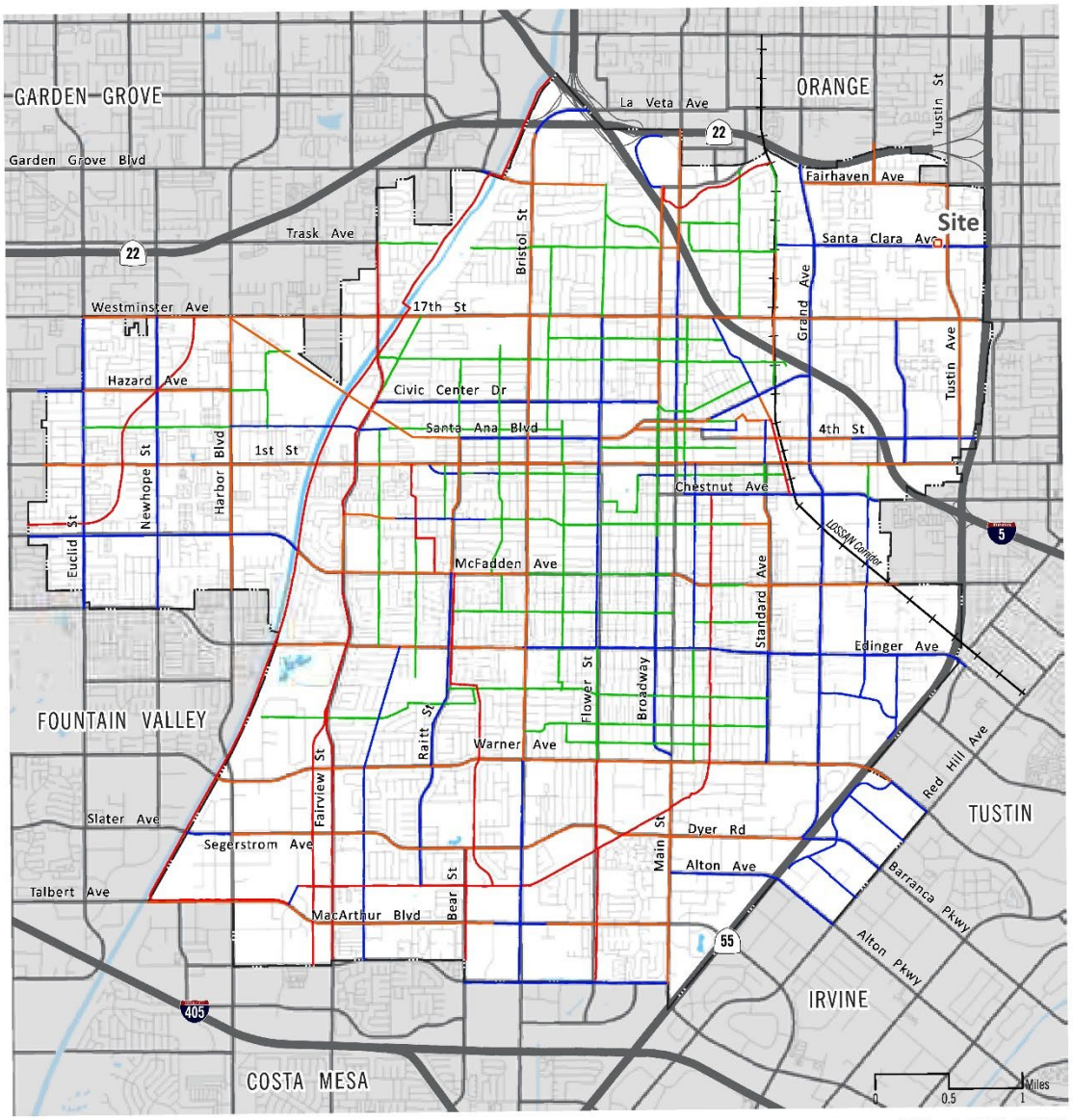


**EXHIBIT 3-5: EXISTING TRANSIT ROUTES**



## EXHIBIT 3-6: CITY OF SANTA ANA MASTER PLAN OF BIKEWAYS

**ABOUT THE MAP.** This map displays the City's long-term plan for a comprehensive bicycle network, with a hierarchy of facilities that provide varying levels of design, signage, and separation from vehicles. The City intends to provide a safe and efficient system that reduces the reliance on the automobiles and facilitates an increase in bicycling by choice. Table M-2 describes each bicycle classification.




Source: City of Santa Ana (2020) Date Published: 11/8/2021

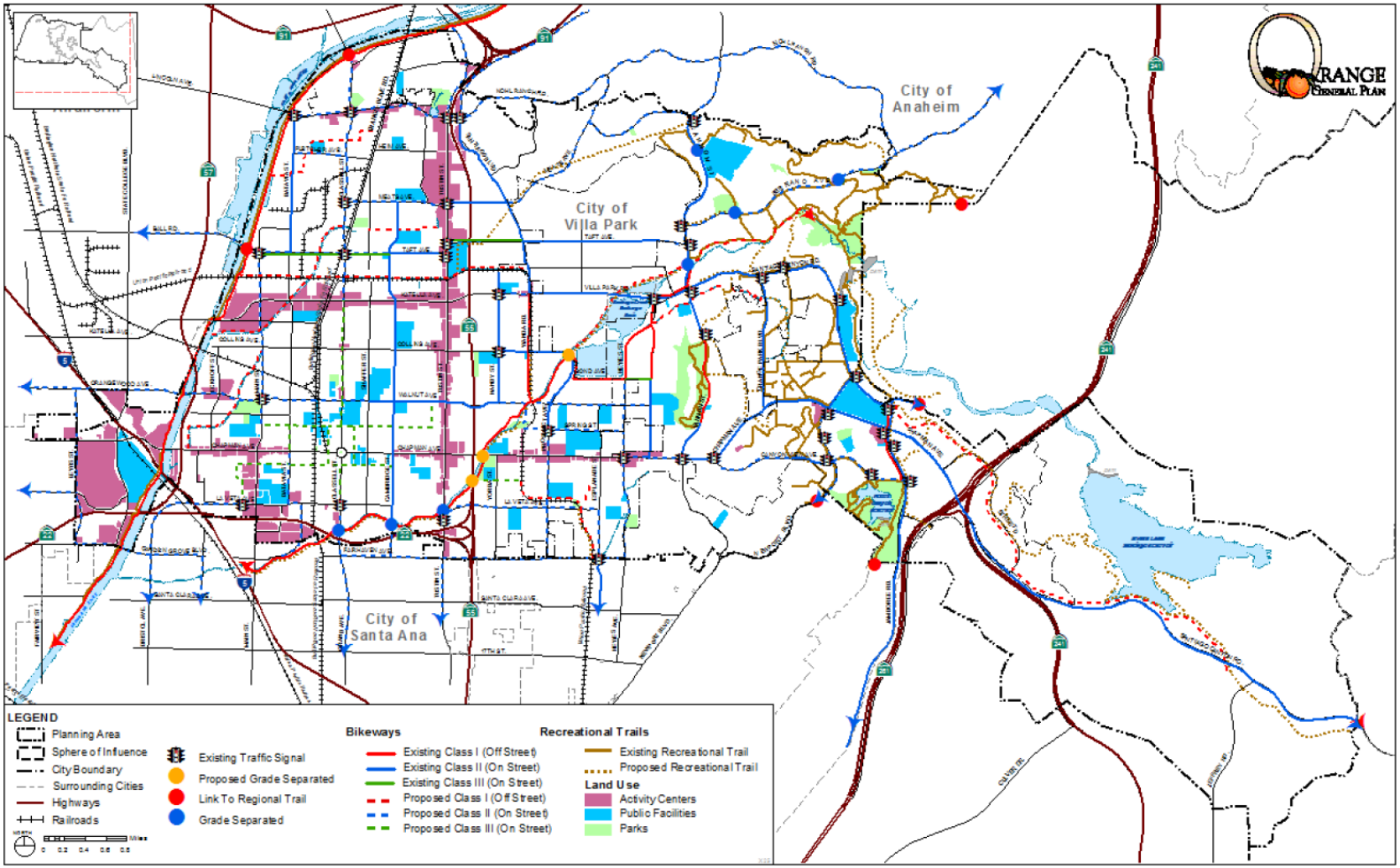
Class I Path
Class II Bike Lane
Class III Bike Route / Boulevard
Class IV Cycle Track
Site Boundary

M 08

CITY OF SANTA ANA GENERAL PLAN

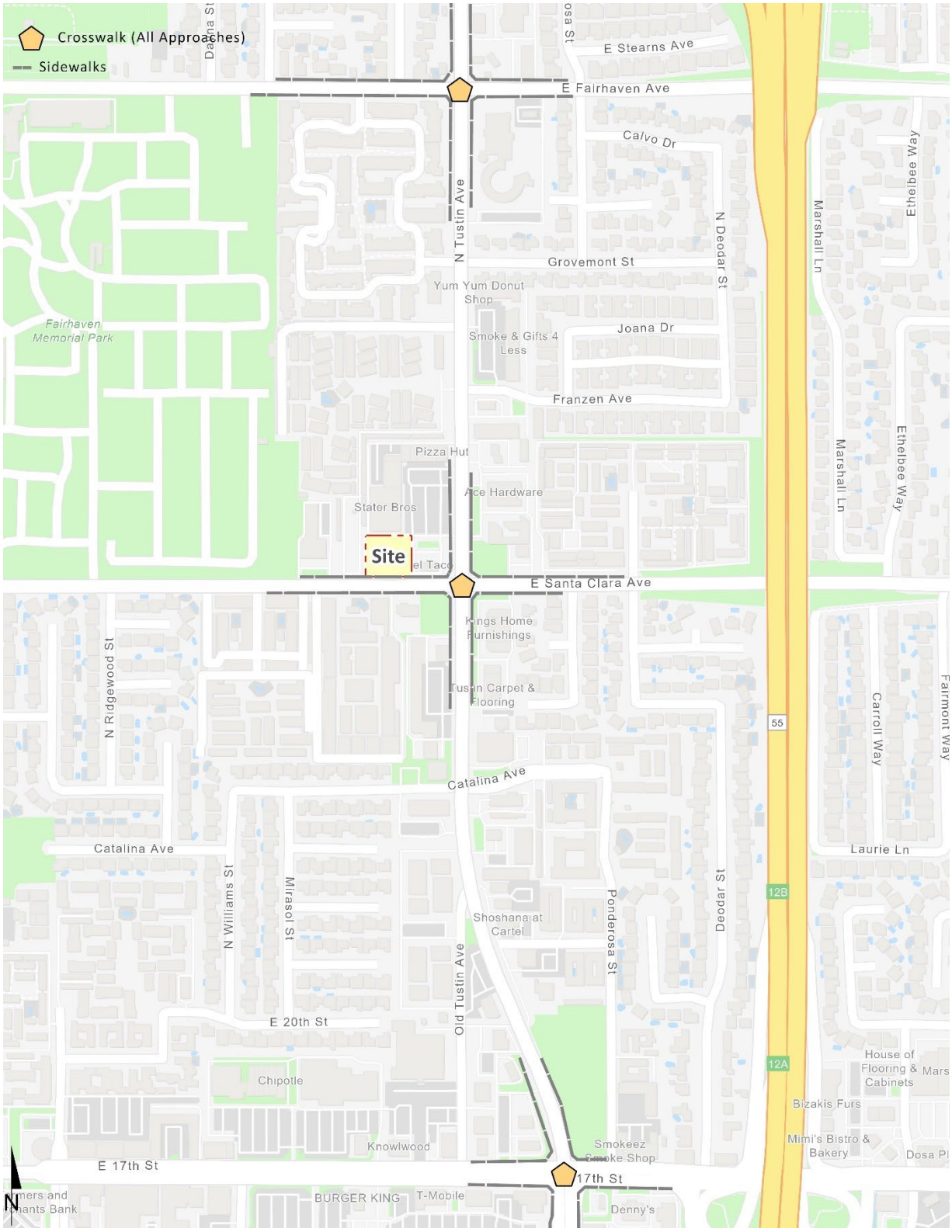
**FIGURE M-2**
**MASTER PLAN OF BIKEWAYS**

**EXHIBIT 3-7: CITY OF ORANGE GENERAL PLAN BIKE NETWORK**

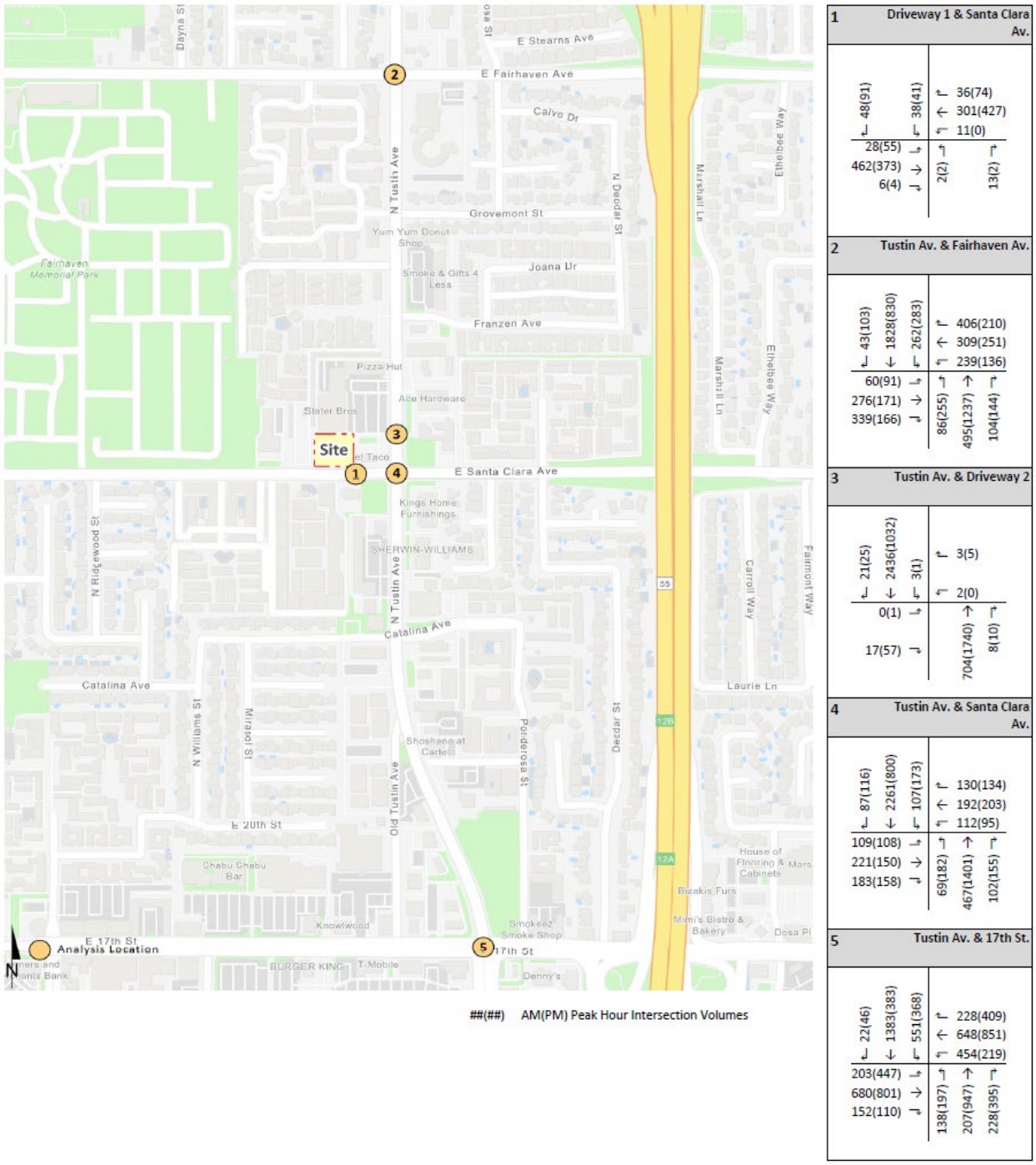



Source: City of Orange Community Services Department, 2015.

**EXHIBIT 3-8: EXISTING PEDESTRIAN FACILITIES**



## EXHIBIT 3-9: EXISTING (2022) TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

## 3.7 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized on Table 3-1, which indicates that the following existing study area intersection is currently operating at unacceptable LOS during one or both peak hours:

- Tustin Av. & Driveway 2 (#3) – LOS E AM peak hour only

The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

## 3.8 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. No unsignalized study area intersections currently warrant a traffic signal for Existing traffic conditions. Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

## 3.9 QUEUING ANALYSIS

Pursuant to the City approved scoping agreement, a queuing analysis was performed for the left turning movements at the intersection of Tustin Avenue & Santa Clara Avenue (#4) to assess vehicle queues along the roadways. Queuing analysis findings are presented in Table 3-2. It is important to note that the available stacking distances are consistent with the measured turn pocket lengths. As shown in Table 3-2, the intersection left turning movements currently experience acceptable queuing during the peak hours based on the 95$^{th}$ percentile peak hour traffic flows. Worksheets for Existing (2022) traffic conditions queuing analysis are provided in Appendix 3.4.

**TABLE 3-1: INTERSECTION ANALYSIS FOR EXISTING (2022) CONDITIONS**

| # | Intersection | Traffic Control[1] | Delay (secs.)[2] ICU (v/c) AM | PM | Level of Service AM | PM |
|---|---|---|---|---|---|---|
| 1 | Driveway 1 & Santa Clara Av. | CSS | 11.7 | 13.0 | B | B |
| 2 | Tustin Av. & Fairhaven Av. | TS | 0.847 | 0.657 | D | B |
| 3 | Tustin Av. & Driveway 2 | CSS | **35.1** | 28.5 | **E** | D |
| 4 | Tustin Av. & Santa Clara Av. | TS | 0.780 | 0.611 | C | B |
| 5 | Tustin Av. & 17th St. | TS | 0.663 | 0.789 | B | C |

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable

[1] CSS = Cross-Street Stop; TS = Traffic Signal

[2] All signalized intersections will be evaluated utilizing Intersection Capacity Utilization (ICU) methodology. For intersections with all way or cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds and ICU reported as a volume-to-capacity ratio.

**TABLE 3-2: QUEUING SUMMARY FOR EXISTING (2022) CONDITIONS**

| # | Intersection | | Available Stacking Distance (Feet) | 95th Percentile Queue (Feet) AM Peak Hour | PM Peak Hour | Acceptable?[1] AM | PM |
|---|---|---|---|---|---|---|---|
| 4 | Tustin Av. & Santa Clara Av. | NBL | 230 | 105 | 258 [2] | Yes | Yes[3] |
| | | SBL | 150 | 73 | 110 | Yes | Yes |
| | | EBL | 105 | 185 [2] | 184 [2] | Yes | Yes[3] |
| | | WBL | 70 | 190 [2] | 165 [2] | Yes[3] | Yes[3] |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown in this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Additional stacking distance is available in the two-way left turn lane.

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# 4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. The proposed Project consists of developing a 3,975 square foot (SF) McDonald's restaurant with a drive-thru window. The drive-through restaurant will be accommodated by redeveloping the existing residential uses. The Project is proposed to utilize two existing driveways: one on Tustin Avenue and one on Santa Clara Avenue. A preliminary site plan of which the traffic study will be based on is shown on Exhibit 1-2.

## 4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development. In order to develop the traffic characteristics of the proposed Project, trip-generation statistics published in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021) was used to estimate the trip generation. (2)

In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the ITE Trip Generation Manual (11th Edition, 2021) for Fast-Food Restaurant With Drive-Through Window (ITE Land Use Code 934) land use were utilized. (2) The trip generation rates are shown in Table 4-1. As shown in Table 4-1, the Project is anticipated to generate a net total of 930 two-way trips per day with 89 AM peak hour trips and 67 PM peak hour trips.

**TABLE 4-1: PROJECT TRIP GENERATION SUMMARY**

| | | ITE LU | AM Peak Hour | | | PM Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | Units[2] | Code | In | Out | Total | In | Out | Total | Daily |
| Trip Generation Rates[1] | | | | | | | | | |
| Fast-Food Restaurant with Drive-Through | TSF | 934 | 22.75 | 21.86 | 44.61 | 17.18 | 15.85 | 33.03 | 467.48 |

[1] Trip Generation Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = Thousand Square Feet

| | | | AM Peak Hour | | | PM Peak Hour | | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | Quantity | Units[1] | In | Out | Total | In | Out | Total | Daily |
| Trip Generation Summary | | | | | | | | | |
| Fast-Food Restaurant with Drive-Through | 3.975 | TSF | 90 | 87 | 177 | 68 | 63 | 131 | 1,860 |
| Pass-By (50% AM; 55% PM/Daily)[2]: | | | -44 | -44 | -88 | -32 | -32 | -64 | -930 |
| Total Net Trips: | | | 46 | 43 | 89 | 36 | 31 | 67 | 930 |

[1] TSF = Thousand Square Feet

[2] Pass-by Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

## 4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution represents the directional orientation of traffic to and from the Project site. Trip distribution is the process of identifying the probable destinations, directions or traffic routes that will be utilized by Project traffic. The potential interaction between the planned land uses and surrounding regional access routes are considered, to identify the route where the Project traffic would distribute. Exhibit 4-1 shows the Project passenger car trip distribution patterns.

## 4.3 MODAL SPLIT

The potential for Project trips to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes.

## 4.4 PROJECT TRIP ASSIGNMENT

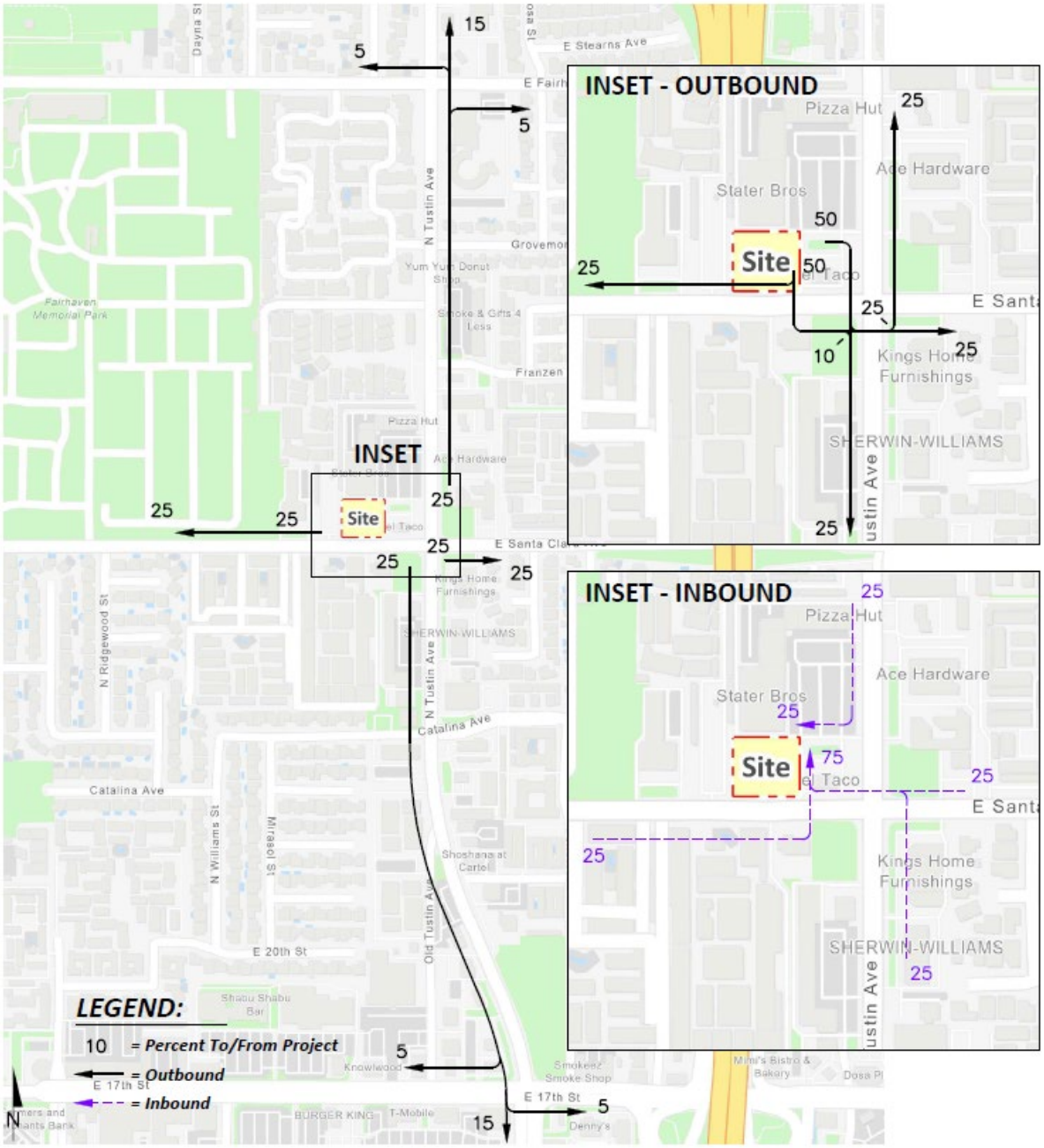
The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, the Project only peak hour intersection turning movement volumes are shown on Exhibit 4-2.

## 4.5 BACKGROUND TRAFFIC

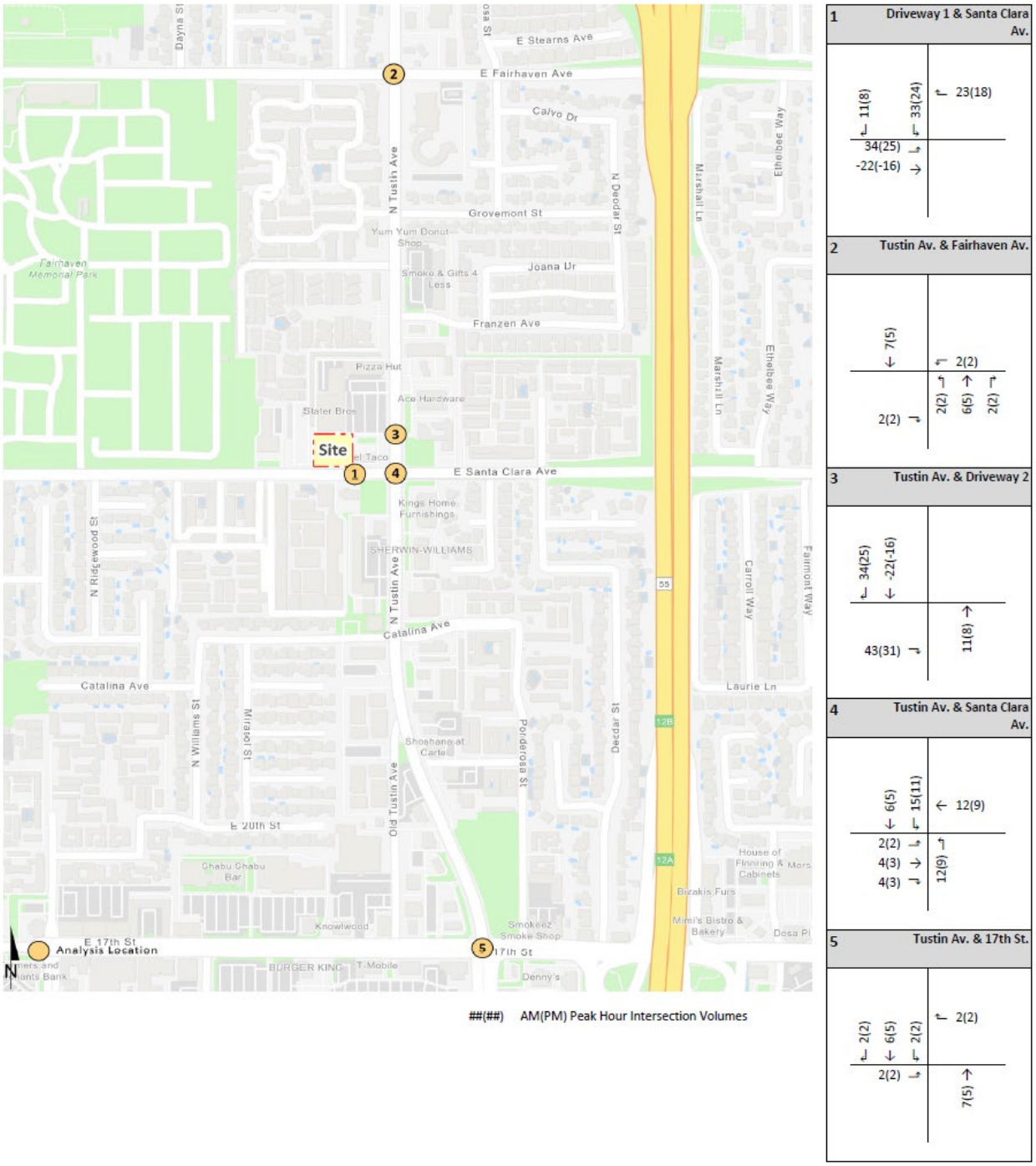
### 4.5.1 OPENING YEAR CUMULATIVE CONDITIONS

Future year traffic forecasts have been based upon background (ambient) growth at 1% per year, compounded annually, for 2023 conditions. The total ambient growth is 1.0% for 2023 traffic conditions (compounded growth of 1 percent per year over 1 years or $1.01^{1\ year}$). The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in addition to traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies.

**EXHIBIT 4-1: PROJECT TRIP DISTRIBUTION**



## EXHIBIT 4-2: PROJECT ONLY TRAFFIC VOLUMES



### 4.5.2 HORIZON YEAR CONDITIONS

According to information published by OCTA in the 2018 Long Range Transportation Plan, the population of Orange County is projected to increase by 10.0% in the period between 2015 and 2040, a compounded rate of approximately 0.39% annually. During the same period, employment in Orange County is expected to increase by 17.0% or 0.67% annually. Therefore, the annual growth rate of 1.0% in conjunction with cumulative project traffic would appear to be conservative and tend to overstate as opposed to understate traffic impacts.

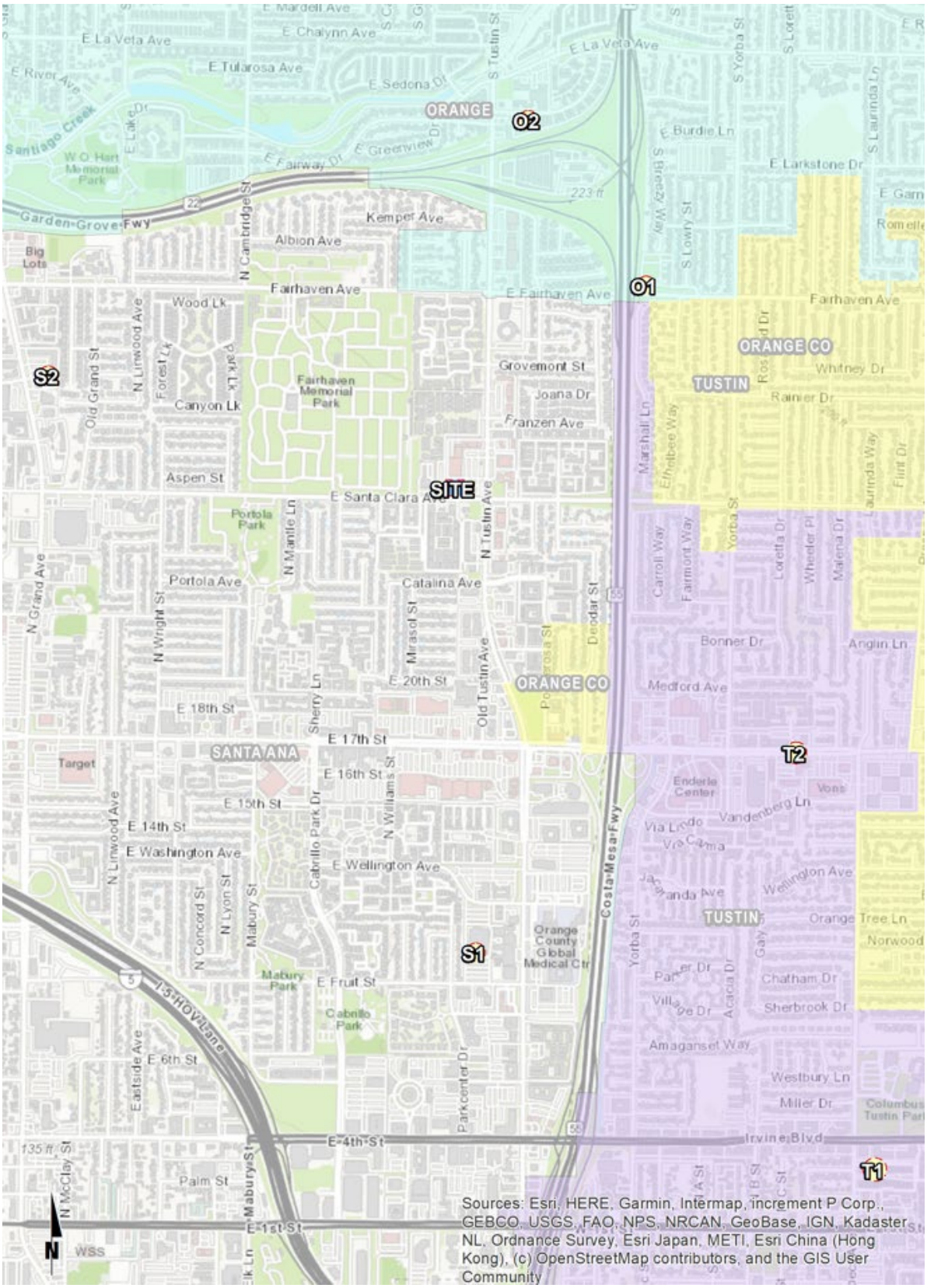
Based on a comparison of Existing (2022) traffic volumes to the Horizon Year (2040) forecasts, the average growth rate is greater than 0.94%, compounded annually between Existing (2022) and 2040 traffic conditions. Therefore, the annual growth rate utilized for the purposes of this analysis would appear to conservatively approximate the anticipated regional growth in traffic volumes in the City of Santa Ana for Opening Year Cumulative and Horizon Year (2040) traffic conditions, especially when considered along with the addition of project-related traffic, which would tend to overstate as opposed to understate the potential impacts to traffic and circulation.

## 4.6 CUMULATIVE DEVELOPMENT TRAFFIC

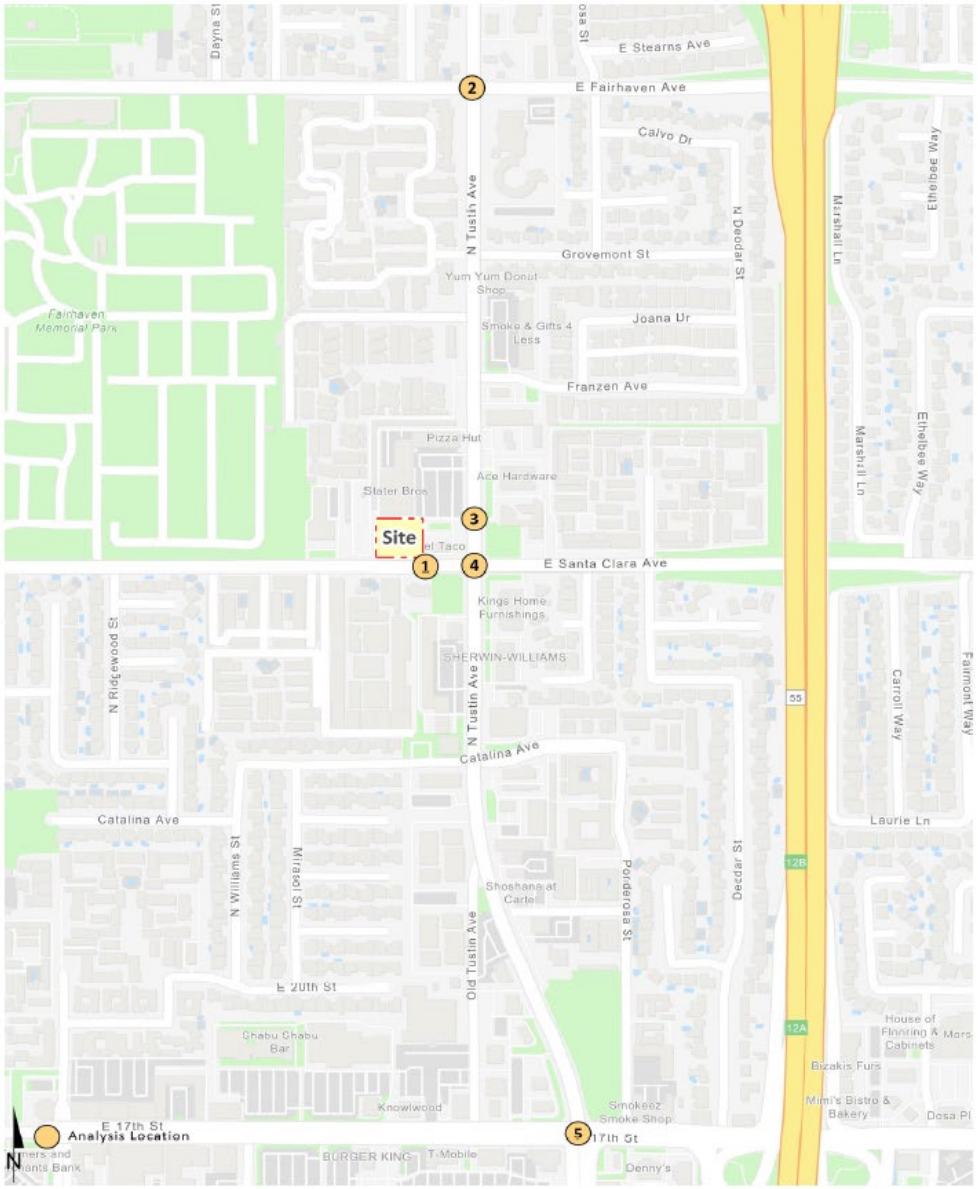
A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Santa Ana. The cumulative project list includes approved City of Santa Ana projects that are anticipated to contribute traffic to the study area intersections. Cumulative projects from the neighboring jurisdictions of Orange and Tustin have also been included.

Exhibit 4-3 illustrates the cumulative development location map. A summary of cumulative development projects and their proposed land uses are shown on Table 4-2. If applicable, the traffic generated by individual cumulative projects was manually added to the Opening Year Cumulative forecasts to ensure that traffic generated by the listed cumulative development projects on Table 4-2 are reflected as part of the background traffic. In an effort to conduct a conservative analysis, the cumulative projects are added in conjunction with the ambient growth identified in Section 4.5.1 *Background Traffic: Opening Year Cumulative Conditions*. Cumulative ADT and peak hour intersection turning movement volumes are shown on Exhibit 4-4.

**EXHIBIT 4-3: CUMULATIVE DEVELOPMENT LOCATION MAP**



## EXHIBIT 4-4: CUMULATIVE ONLY TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | |
|---|---|
| | ← 2(6) |
| 3(5) → | |

**2 Tustin Av. & Fairhaven Av.**

| | |
|---|---|
| ↳ 2(4)<br>↓ 8(6)<br>↳ 1(1) | ↱ 1(1)<br>← 0(3)<br>↰ 1(1) |
| 2(4) ↳<br>1(3) →<br>1(1) ↳ | ↰ 0(2)<br>↑ 4(8)<br>↱ 0(2) |

**3 Tustin Av. & Driveway 2**

| | |
|---|---|
| ← 11(7) | |
| | 5(11) → |

**4 Tustin Av. & Santa Clara Av.**

| | |
|---|---|
| ↳ 1(1)<br>↓ 9(6)<br>↳ 1(1) | ↱ 1(1)<br>← 0(3)<br>↰ 1(1) |
| 1(1) ↳<br>1(3) →<br>1(1) ↳ | ↰ 0(2)<br>↑ 3(9)<br>↱ 0(2) |

**5 Tustin Av. & 17th St.**

| | |
|---|---|
| ↳ 1(1)<br>↓ 2(2)<br>↳ 8(4) | ↱ 2(9)<br>← 1(5)<br>↰ 0(2) |
| 1(1) ↳<br>3(3) →<br>1(3) ↳ | ↰ 0(3)<br>↑ 1(2)<br>↱ 1(1) |

**TABLE 4-2: CUMULATIVE DEVELOPMENT LAND USE SUMMARY**

| # | Project | Address | Land Use | Quantity[1] |
|---|---|---|---|---|
| City of Santa Ana | | | | |
| S1 | Calvary Church Master Plan | 1010 N Tustin | Religious/Education | 46.840 TSF |
| S2 | Grand and Grovemont Development | 2511, 2521, & 2525 North Grand Avenue | Multifamily Units | 80 DU |
| City of Tustin | | | | |
| T1 | Intracorp Multifamily Residential | 17802 and 17842 Irvine Boulevard | Multifamily Units | 40 DU |
| T2 | CUP 2021-0030, DR 2021-0016 | 17631 17th Street | Medical Office | 11.323 TSF |
| City of Orange | | | | |
| O1 | Grace Church | 2201 Fairhaven Ave | Religious/Education | 8.663 TSF |
| O2 | IUSA Properties | 1800 E La Veta Ave | Senior Apartments | 166 DU |

[1] DU = Dwelling Units; TSF = Thousand Square Feet

## 4.7 HORIZON YEAR (2040) VOLUME DEVELOPMENT

Traffic projections for Horizon Year (2040) without Project conditions were derived from the Orange County Transportation Analysis Model (OCTAM) using accepted procedures for model forecast refinement and smoothing for study area intersections located within the County of Orange. The traffic forecasts reflect the area-wide growth anticipated between Existing (2022) conditions and Horizon Year (2040) traffic conditions. In most instances the traffic model zone structure is not designed to provide accurate turning movements along arterial roadways unless refinement and reasonableness checking is performed. Therefore, the Horizon Year (2040) peak hour forecasts were refined using the model derived long range forecasts, base (validation) year model forecasts, along with existing peak hour traffic count data collected at each analysis location in February 2022. The OCTAM has a base (validation) year of 2016 and a horizon (future forecast) year of 2045. The difference in model volumes (2045-2016) defines the growth in traffic over the 29-year period.

The refined future peak hour approach and departure volumes obtained from the model output data are then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program (NCHRP Report 765), along with initial estimates of turning movement proportions. A linear programming algorithm is used to calculate individual turning movements which match the known directional roadway segment forecast volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The OCTAM uses an AM peak period-to-peak hour factor of 0.38 and a PM peak period-to-peak hour factor of 0.28. These factors represent the relationship of the highest single AM peak hour to the modeled 3-hour AM peak period (an even distribution would result in a factor of 0.33) and the highest single PM peak hour to the modeled 4-hour PM peak period (an even distribution would result in a factor of 0.25).

Typically, the model growth is prorated and is subsequently added to the existing (base validation) traffic volumes to represent Horizon Year traffic conditions. In an effort to conduct a conservative analysis, reductions to traffic forecasts from either Existing or Opening Year Cumulative traffic conditions were not assumed as part of this analysis. As such, in conjunction with the addition of cumulative projects that are not consistent with the General Plan, additional growth has also been

applied on a movement-by-movement basis, where applicable, to estimate reasonable Horizon Year (2040) forecasts. Horizon Year (2040) turning volumes were compared to Opening Year Cumulative (2023) volumes in order to ensure a minimum growth as a part of the refinement process. The minimum growth includes any additional growth between Opening Year Cumulative (2023) and Horizon Year (2040) traffic conditions that is not accounted for by the traffic generated by cumulative development projects and ambient growth rates assumed between Existing (2022) and Opening Year Cumulative (2023) conditions. Future estimated peak hour traffic data was used for new intersections and intersections with an anticipated change in travel patterns to further refine the Horizon Year (2040) peak hour forecasts.

The future Horizon Year (2040) Without Project peak hour turning movements were then reviewed by Urban Crossroads, Inc. for reasonableness, and in some cases, were adjusted to achieve flow conservation, reasonable growth, and reasonable diversion between parallel routes. Flow conservation checks ensure that traffic flow between two closely spaced intersections, such as two adjacent driveway locations, is verified in order to make certain that vehicles leaving one intersection are entering the adjacent intersection and that there is no unexplained loss of vehicles. The result of this traffic forecasting procedure is a series of traffic volumes which are suitable for traffic operations analysis. Post processing has been performed for the weekday AM and PM peak hours only as these are the only time periods where traffic model data was readily available (worksheets provided in Appendix 4.1 of this TA). Project traffic was then added for all With Project traffic conditions.

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# 5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Existing plus Project (E+P) conditions and the resulting intersection operations, traffic signal warrant, and queuing analyses.

## 5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

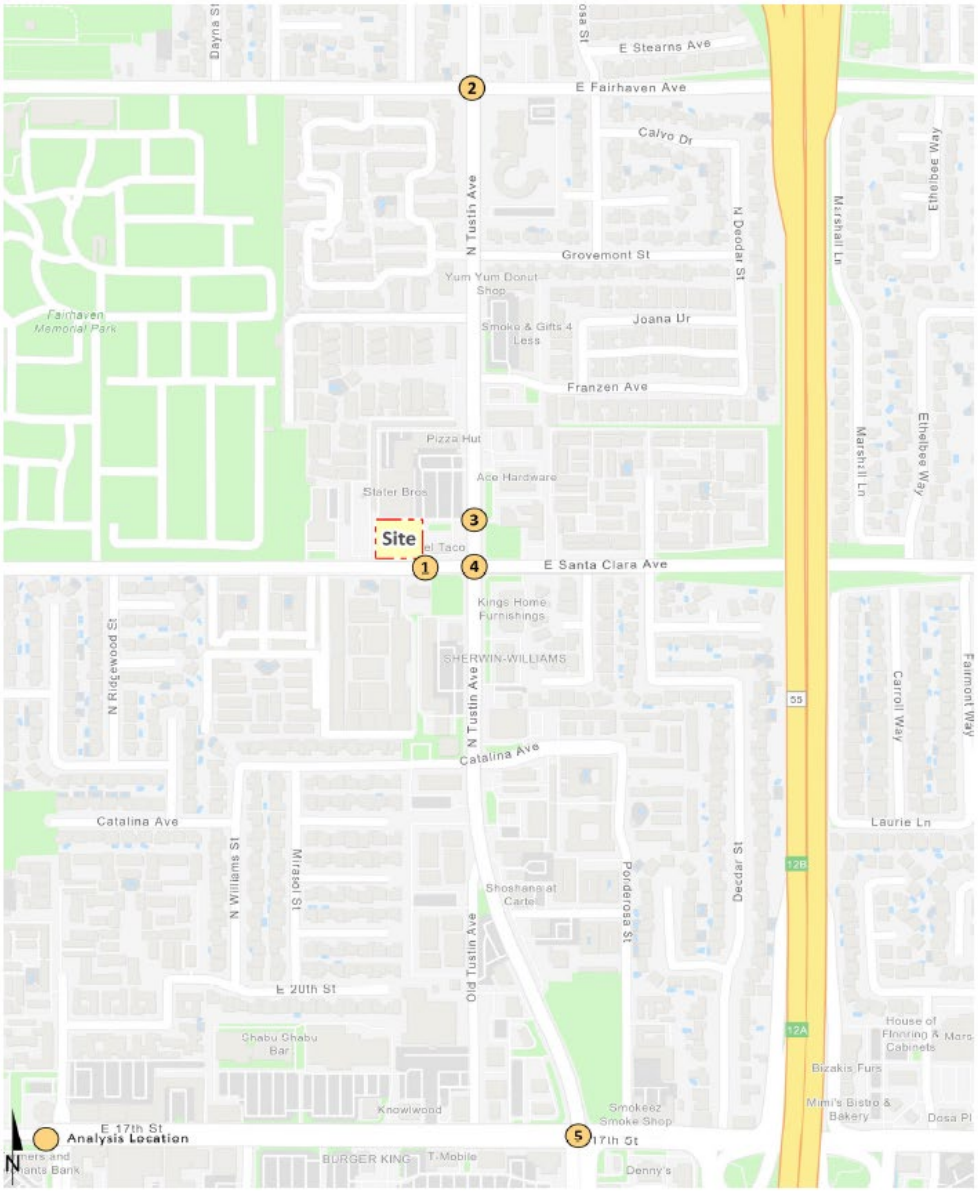
## 5.2 EXISTING PLUS PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus Project traffic. The weekday ADT and weekday peak hour intersection turning movement volumes, which can be expected for E+P traffic conditions are shown on Exhibit 5-1.

## 5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized on Table 5-1 for E+P traffic conditions, which indicate that there are no additional study area intersections anticipated to operate at an unacceptable LOS under E+P traffic conditions, in addition to the intersections previously identified for Existing traffic conditions. **The addition of Project traffic would not trigger the City of Santa Ana's significance criteria.** The intersection operations analysis worksheets for E+P traffic conditions are included in Appendix 5.1 of this TA.

## EXHIBIT 5-1: E+P TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | | |
|---|---|---|
| 59(99) ↳ | 71(65) ↳ | 59(92) ↱ |
| | | 301(427) ← |
| | | 11(0) ↰ |
| 62(80) ↳ | | |
| 440(357) → | 2(2) ↰ | 13(2) ↱ |
| 6(4) ↳ | | |

**2 Tustin Av. & Fairhaven Av.**

| | | |
|---|---|---|
| 43(103) ↳ | 1835(835) ↓ | 262(283) ↳ | 406(210) ↱ |
| | | | 309(251) ← |
| | | | 241(138) ↰ |
| 60(91) ↳ | | | |
| 276(171) → | 88(257) ↰ | 501(1242) ↑ | 106(146) ↱ |
| 341(168) ↳ | | | |

**3 Tustin Av. & Driveway 2**

| | | |
|---|---|---|
| 55(50) ↳ | 2414(1016) ↓ | 3(1) ↳ | 3(5) ↱ |
| | | | 2(0) ↰ |
| 0(1) ↳ | | | |
| 60(88) ↳ | | 715(1748) ↑ | 8(10) ↱ |

**4 Tustin Av. & Santa Clara Av.**

| | | |
|---|---|---|
| 87(116) ↳ | 2267(805) ↓ | 122(184) ↳ | 130(134) ↱ |
| | | | 204(212) ← |
| | | | 112(95) ↰ |
| 111(110) ↳ | | | |
| 225(153) → | 81(191) ↰ | 467(1401) ↑ | 102(155) ↱ |
| 187(161) ↳ | | | |

**5 Tustin Av. & 17th St.**

| | | |
|---|---|---|
| 24(48) ↳ | 1389(388) ↓ | 553(370) ↳ | 230(411) ↱ |
| | | | 648(851) ← |
| | | | 454(219) ↰ |
| 205(449) ↳ | | | |
| 680(801) → | 138(197) ↰ | 214(952) ↑ | 228(395) ↱ |
| 152(110) ↳ | | | |

**TABLE 5-1: INTERSECTION ANALYSIS FOR E+P CONDITIONS**

| | | | Existing (2022) | | | | E+P | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Change in v/c | | Project-Related |
| # | Intersection | Traffic Control[1] | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | Deficiency?[3] |
| 1 | Driveway 1 & Santa Clara Av. | CSS | 11.7 | 13.0 | B | B | 13.8 | 15.0 | B | C | -- | -- | No |
| 2 | Tustin Av. & Fairhaven Av. | TS | 0.847 | 0.657 | D | B | 0.852 | 0.659 | D | B | 0.005 | 0.002 | No |
| 3 | Tustin Av. & Driveway 2 | CSS | **35.1** | 28.5 | **E** | D | **51.9** | 28.8 | **F** | D | -- | -- | No |
| 4 | Tustin Av. & Santa Clara Av. | TS | 0.780 | 0.611 | C | B | 0.792 | 0.619 | C | B | 0.012 | 0.008 | No |
| 5 | Tustin Av. & 17th St. | TS | 0.663 | 0.789 | B | C | 0.665 | 0.792 | B | C | 0.002 | 0.003 | No |

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] CSS = Cross-Street Stop; TS = Traffic Signal

[2] All signalized intersections will be evaluated utilizing Intersection Capacity Utilization (ICU) methodology. For intersections with all way or cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds and ICU reported as a volume-to-capacity ratio.

[3] City of Santa Ana
A transportation impact on an intersection shall be deemed "significant" in accordance with the following table:
• The peak hour Level of Service (LOS) exceeds the maximum City threshold. The City of Santa Ana considers LOS D to be the minimum acceptable LOS for all intersections, except for those locations located within the City's defined major development areas, where LOS E is considered acceptable.
• The project increases traffic demand at the study intersection by 1% of capacity (ICU increase ≥ 0.010).
• At unsignalized intersections, an impact is considered to be significant if the project causes an intersection at LOS D or better to degrade to LOS E or F and the traffic signal warrant analysis determines that a signal is justified.
City of Orange
An intersection will be deemed deficient and require improvements to achieve an acceptable LOS when the LOS is E or F (Final V/C Ratio>0.90) and the project-related increase in V/C is equal to or greater than 0.010.

## 5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for E+P traffic conditions are based on the peak hour volume-based traffic signal warrants. No study area intersections are anticipated to meet peak hour volume-based warrants with the addition of Project traffic (see Appendix 5.2).

## 5.5 QUEUING ANALYSIS

Pursuant to the City approved scoping agreement, a queuing analysis was performed for the left turning movements at the intersection of Tustin Avenue & Santa Clara Avenue (#4) to assess vehicle queues along the roadways. Queuing analysis findings are presented in Table 5-2. It is important to note that the available stacking distances are consistent with the measured turn pocket lengths. As shown in Table 5-2, the intersection left turning movements are anticipated to experience acceptable queuing during the peak hours based on the 95$^{th}$ percentile peak hour traffic flows. Worksheets for E+P traffic conditions queuing analysis are provided in Appendix 5.3.

## TABLE 5-2: QUEUING SUMMARY FOR E+P CONDITIONS

| # | Intersection | Movement | Available Stacking Distance (Feet) | Existing (2022) 95th Percentile Queue (Feet) AM Peak Hour | Existing (2022) 95th Percentile Queue (Feet) PM Peak Hour | Existing (2022) Acceptable? [1] AM | Existing (2022) Acceptable? [1] PM | E+P 95th Percentile Queue (Feet) AM Peak Hour | E+P 95th Percentile Queue (Feet) PM Peak Hour | E+P Acceptable? [1] AM | E+P Acceptable? [1] PM |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | Tustin Av. & Santa Clara Av. | NBL | 230 | 105 | 258 [2] | Yes | Yes[3] | 119 | 276 [2] | Yes | Yes[3] |
| | | SBL | 150 | 73 | 110 | Yes | Yes | 81 | 117 | Yes | Yes |
| | | EBL | 105 | 185 [2] | 184 [2] | Yes[3] | Yes[3] | 189 [2] | 188 [2] | Yes[3] | Yes[3] |
| | | WBL | 70 | 190 [2] | 165 [2] | Yes[3] | Yes[3] | 190 [2] | 165 [2] | Yes[3] | Yes[3] |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown in this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Additional stacking distance is available in the two-way left turn lane.

# 6 OPENING YEAR CUMULATIVE (2023) TRAFFIC CONDITIONS

This section discusses the methods used to develop Opening Year Cumulative (2023) Without and With Project traffic forecasts, and the resulting intersection operations, traffic signal warrant, and queuing analyses.

## 6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2023) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Opening Year Cumulative conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- If applicable, driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Opening Year Cumulative conditions only.

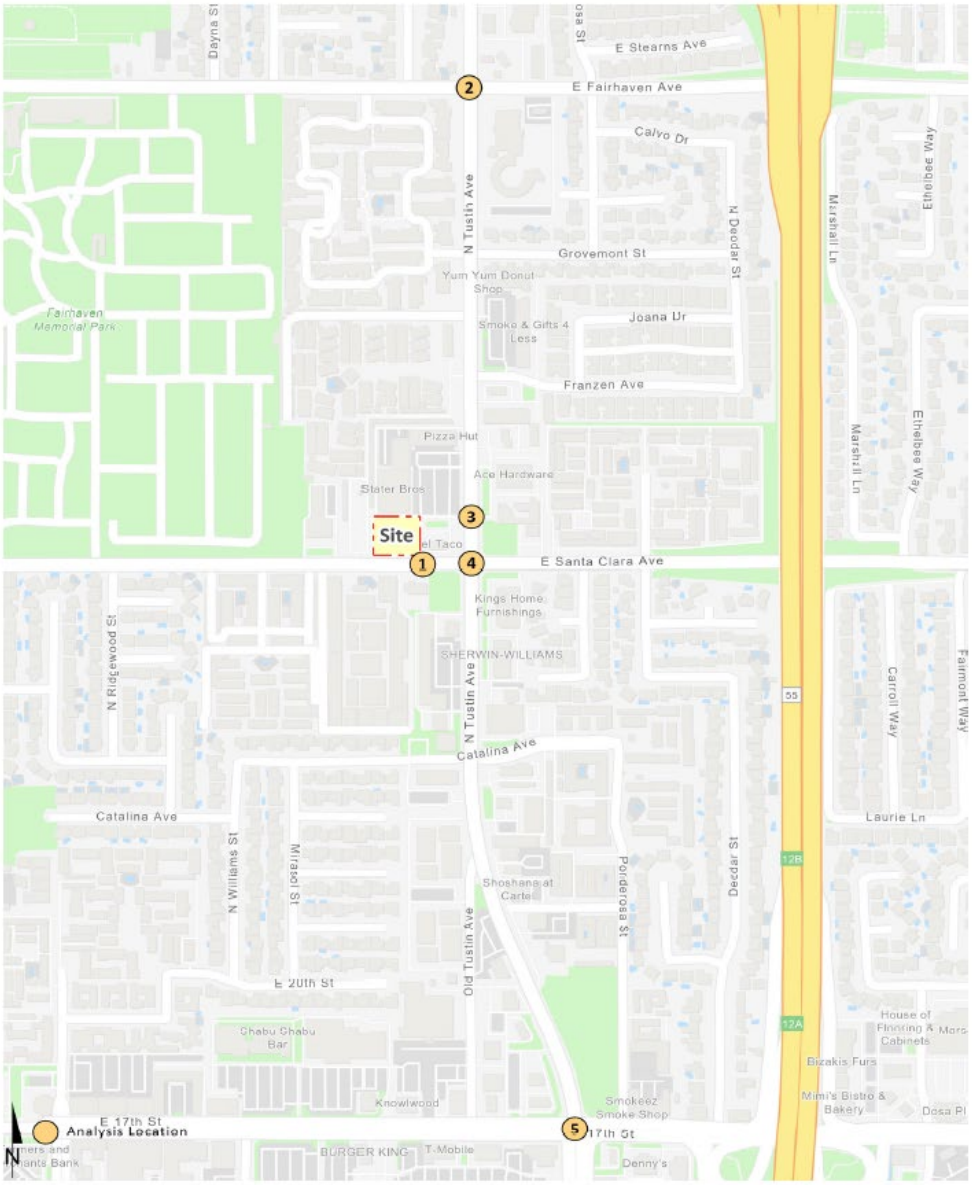
## 6.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus an ambient growth factor of 1.0% plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday peak hour volumes, which can be expected for Opening Year Cumulative (2023) Without Project traffic conditions are shown on Exhibit 6-1.

## 6.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2023) Without Project traffic in conjunction with the addition of Project traffic. The weekday ADT and weekday peak hour volumes, which can be expected for Opening Year Cumulative (2023) With Project traffic conditions are shown on Exhibit 6-2.

## EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2023) WITHOUT PROJECT TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | | | | | |
|---|---|---|---|---|---|
| 48(92) | 38(41) | | 36(75) | | |
| | | | 306(437) | | |
| | | | 11(0) | | |
| 28(56) | | | | | |
| 470(382) | | 2(2) | | | 13(2) |
| 6(4) | | | | | |

**2 Tustin Av. & Fairhaven Av.**

| | | | | | |
|---|---|---|---|---|---|
| 45(108) | 1854(844) | 266(287) | 411(213) | | |
| | | | 312(257) | | |
| | | | 242(138) | | |
| 63(96) | | | | | |
| 280(176) | | 87(260) | | 504(1257) | 105(147) |
| 343(169) | | | | | |

**3 Tustin Av. & Driveway 2**

| | | | | | |
|---|---|---|---|---|---|
| 21(25) | 2471(1049) | 3(1) | 3(5) | | |
| | | | 2(0) | | |
| 0(1) | | | | | |
| 17(58) | | | | 716(1768) | 8(10) |

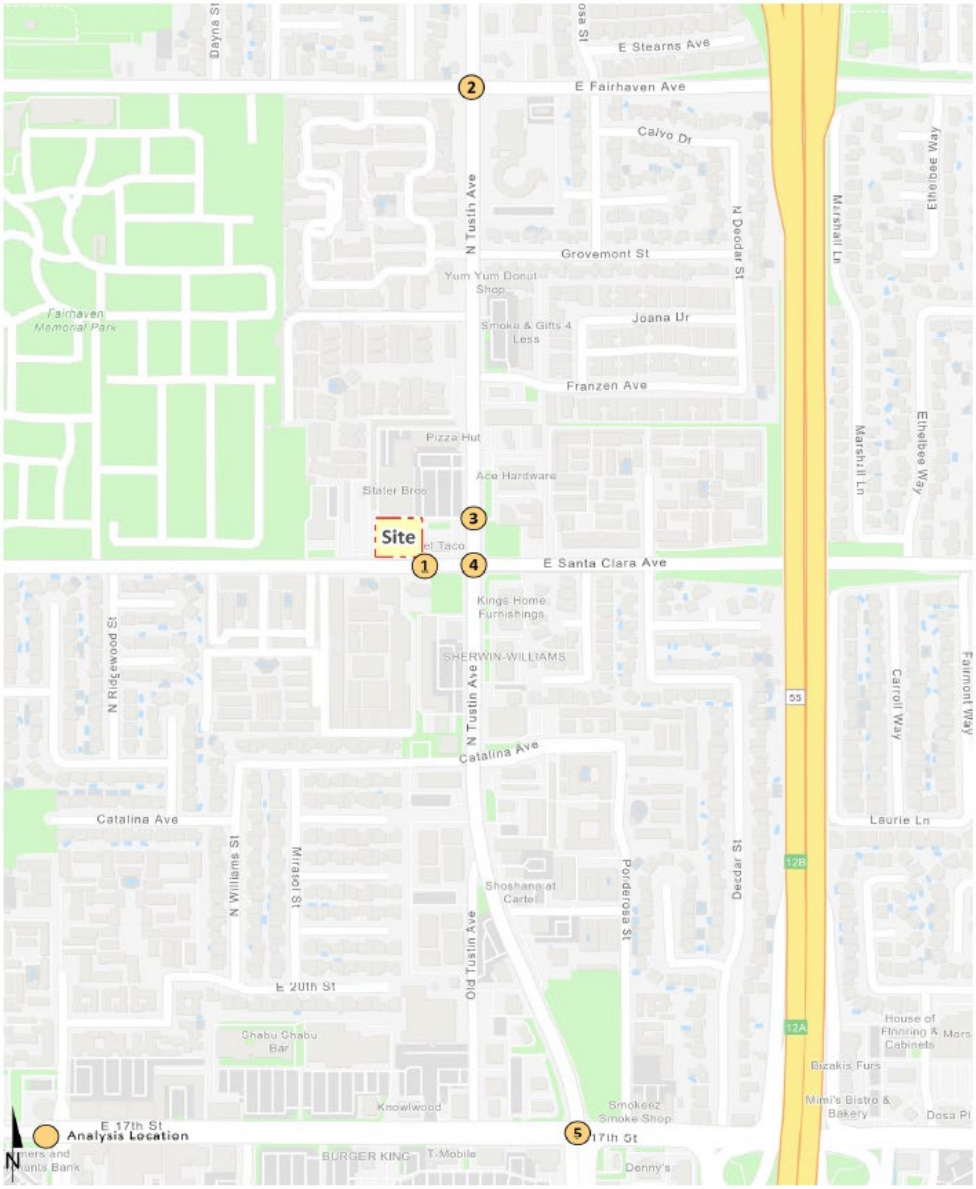
**4 Tustin Av. & Santa Clara Av.**

| | | | | | |
|---|---|---|---|---|---|
| 89(118) | 2293(814) | 109(176) | 132(136) | | |
| | | | 194(208) | | |
| | | | 114(97) | | |
| 111(110) | | 70(186) | | | |
| 224(155) | | | | 475(1424) | 103(159) |
| 186(161) | | | | | |

**5 Tustin Av. & 17th St.**

| | | | | | |
|---|---|---|---|---|---|
| 23(47) | 1399(389) | 565(376) | 232(422) | | |
| | | | 655(865) | | |
| | | | 459(223) | | |
| 206(452) | | 139(202) | | | |
| 690(812) | | | | 210(958) | 231(400) |
| 155(114) | | | | | |

## EXHIBIT 6-2: OPENING YEAR CUMULATIVE (2023) WITH PROJECT TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | | |
|---|---|---|
| 59(100) ↲ | 71(65) ↳ | ↱ 59(93) |
| | | ← 306(437) |
| | | ↰ 11(0) |
| 62(81) ↳ | | ↰ |
| 448(366) → | | → 2(2) |
| 6(4) ↲ | | ↱ 13(2) |

**2 Tustin Av. & Fairhaven Av.**

| | | |
|---|---|---|
| 45(108) ↲ | 1861(849) ↓ | 266(287) ↳ | ↱ 411(213) |
| | | | ← 312(257) |
| | | | ↰ 244(140) |
| 63(96) ↳ | | | ↰ |
| 280(176) → | | | → 89(262) |
| 345(171) ↲ | | | ↱ 107(149) |
| | | | ↑ 510(1262) |

**3 Tustin Av. & Driveway 2**

| | | |
|---|---|---|
| 55(50) ↲ | 2449(1033) ↓ | 3(1) ↳ | ↱ 3(5) |
| | | | ↰ 2(0) |
| 0(1) ↳ | | | ↑ 727(1776) |
| 60(89) ↲ | | | ↱ 8(10) |

**4 Tustin Av. & Santa Clara Av.**

| | | |
|---|---|---|
| 89(118) ↲ | 2299(819) ↓ | 124(187) ↳ | ↱ 132(136) |
| | | | ← 206(217) |
| | | | ↰ 114(97) |
| 113(112) ↳ | | | ↰ |
| 228(158) → | | | → 82(195) |
| 190(164) ↲ | | | ↱ 103(159) |
| | | | ↑ 475(1424) |

**5 Tustin Av. & 17th St.**

| | | |
|---|---|---|
| 25(49) ↲ | 1405(394) ↓ | 567(378) ↳ | ↱ 234(424) |
| | | | ← 655(865) |
| | | | ↰ 459(223) |
| 208(454) ↳ | | | ↰ |
| 690(812) → | | | → 139(202) |
| 155(114) ↲ | | | ↱ 231(400) |
| | | | ↑ 217(963) |

## 6.4 INTERSECTION OPERATIONS ANALYSIS

### 6.4.1 OPENING YEAR CUMULATIVE (2023) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Opening Year Cumulative (2023) Without Project conditions with roadway and intersection geometrics consistent with Section 6.1 *Roadway Improvements*. As shown on Table 6-1, the following intersections are anticipated to operate at an unacceptable LOS under Opening Year Cumulative (2023) Without Project traffic conditions:

- Tustin Av. & Driveway 2 (#3) – LOS E AM peak hour only

The intersection operations analysis worksheets for Opening Year Cumulative (2023) Without Project traffic conditions are included in Appendix 6.1 of this TA.

**TABLE 6-1: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2023) CONDITIONS**

| | | | 2023 Without Project | | | | 2023 With Project | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Change in v/c | | Project-Related |
| # | Intersection | Traffic Control[1] | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | Deficiency?[3] |
| 1 | Driveway 1 & Santa Clara Av. | CSS | 11.8 | 13.2 | B | B | 13.9 | 15.2 | B | C | -- | -- | No |
| 2 | Tustin Av. & Fairhaven Av. | TS | 0.858 | 0.671 | D | B | 0.863 | 0.672 | D | B | 0.005 | 0.001 | No |
| 3 | Tustin Av. & Driveway 2 | CSS | **36.1** | 29.3 | **E** | D | **54.3** | 29.7 | **F** | D | -- | -- | No |
| 4 | Tustin Av. & Santa Clara Av. | TS | 0.791 | 0.621 | C | B | 0.803 | 0.629 | D | B | 0.012 | 0.008 | No |
| 5 | Tustin Av. & 17th St. | TS | 0.671 | 0.800 | B | C | 0.672 | 0.803 | B | D | 0.001 | 0.003 | No |

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

1 CSS = Cross-Street Stop; TS = Traffic Signal

2 All signalized intersections will be evaluated utilizing Intersection Capacity Utilization (ICU) methodology. For intersections with all way or cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds and ICU reported as a volume-to-capacity ratio.

3 City of Santa Ana
A transportation impact on an intersection shall be deemed "significant" in accordance with the following table:
• The peak hour Level of Service (LOS) exceeds the maximum City threshold. The City of Santa Ana considers LOS D to be the minimum acceptable LOS for all intersections, except for those locations located within the City's defined major development areas, where LOS E is considered acceptable.
• The project increases traffic demand at the study intersection by 1% of capacity (ICU increase ≥ 0.010).
• At unsignalized intersections, an impact is considered to be significant if the project causes an intersection at LOS D or better to degrade to LOS E or F and the traffic signal warrant analysis determines that a signal is justified.
City of Orange
An intersection will be deemed deficient and require improvements to achieve an acceptable LOS when the LOS is E or F (Final V/C Ratio>0.90) and the project-related increase in V/C is equal to or greater than 0.010.

### 6.4.2 OPENING YEAR CUMULATIVE (2023) WITH PROJECT TRAFFIC CONDITIONS

As shown on Table 6-1, there are no additional study area intersections anticipated to operate at a deficient LOS during any of the peak hours for Opening Year Cumulative (2023) With Project traffic conditions with the addition of Project traffic. **The addition of Project traffic would not trigger the City of Santa Ana's significance criteria.** The intersection operations analysis worksheets for Opening Year Cumulative (2023) With Project traffic conditions are included in Appendix 6.2 of this TA.

## 6.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for Opening Year Cumulative (2023) traffic conditions are based on the peak hour volume-based traffic signal warrants. No study area intersections are anticipated to meet peak hour volume-based warrants for Opening Year Cumulative (2023) Without Project (see Appendix 6.3). With the addition of Project traffic, there are no study area intersections anticipated to meet traffic signal warrants under Opening Year Cumulative (2023) With Project traffic conditions (see Appendix 6.4).

## 6.6 QUEUING ANALYSIS

Pursuant to the City approved scoping agreement, a queuing analysis was performed for the left turning movements at the intersection of Tustin Avenue & Santa Clara Avenue (#4) to assess vehicle queues along the roadways. Queuing analysis findings are presented in Table 6-2. It is important to note that the available stacking distances are consistent with the measured turn pocket lengths. As shown in Table 6-2, the intersection left turning movements are anticipated to experience acceptable queuing during the peak hours based on the 95th percentile peak hour traffic flows. Worksheets for Opening Year Cumulative (2023) Without Project and With Project traffic conditions queuing analysis are provided in Appendices 6.5 and 6.6, respectively.

**TABLE 6-2: QUEUING SUMMARY FOR OPENING YEAR CUMULATIVE (2023) CONDITIONS**

| | | | 2023 Without Project | | | | 2023 Without Project | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Available Stacking | 95th Percentile Queue (Feet) | | Acceptable? [1] | | 95th Percentile Queue (Feet) | | Acceptable? [1] | |
| # | Intersection | Movement | Distance (Feet) | AM Peak Hour | PM Peak Hour | AM | PM | AM Peak Hour | PM Peak Hour | AM | PM |
| 4 | Tustin Av. & Santa Clara Av. | NBL | 230 | 107 | 268 [2] | Yes | Yes[3] | 120 | 284 [2] | Yes | Yes[3] |
| | | SBL | 150 | 75 | 112 | Yes | Yes | 83 | 118 | Yes | Yes |
| | | EBL | 105 | 189 [2] | 188 [2] | Yes[3] | Yes[3] | 192 [2] | 191 [2] | Yes[3] | Yes[3] |
| | | WBL | 70 | 195 [2] | 168 [2] | Yes[3] | Yes[3] | 195 [2] | 168 [2] | Yes[3] | Yes[3] |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown in this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Additional stacking distance is available in the two-way left turn lane.

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# 7 HORIZON YEAR (2040) TRAFFIC CONDITIONS

This section discusses the methods used to develop Horizon Year (2040) Without and With Project traffic forecasts, and the resulting intersection operations and traffic signal warrant analyses.

## 7.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Horizon Year (2040) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- If applicable, driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Horizon Year conditions only.

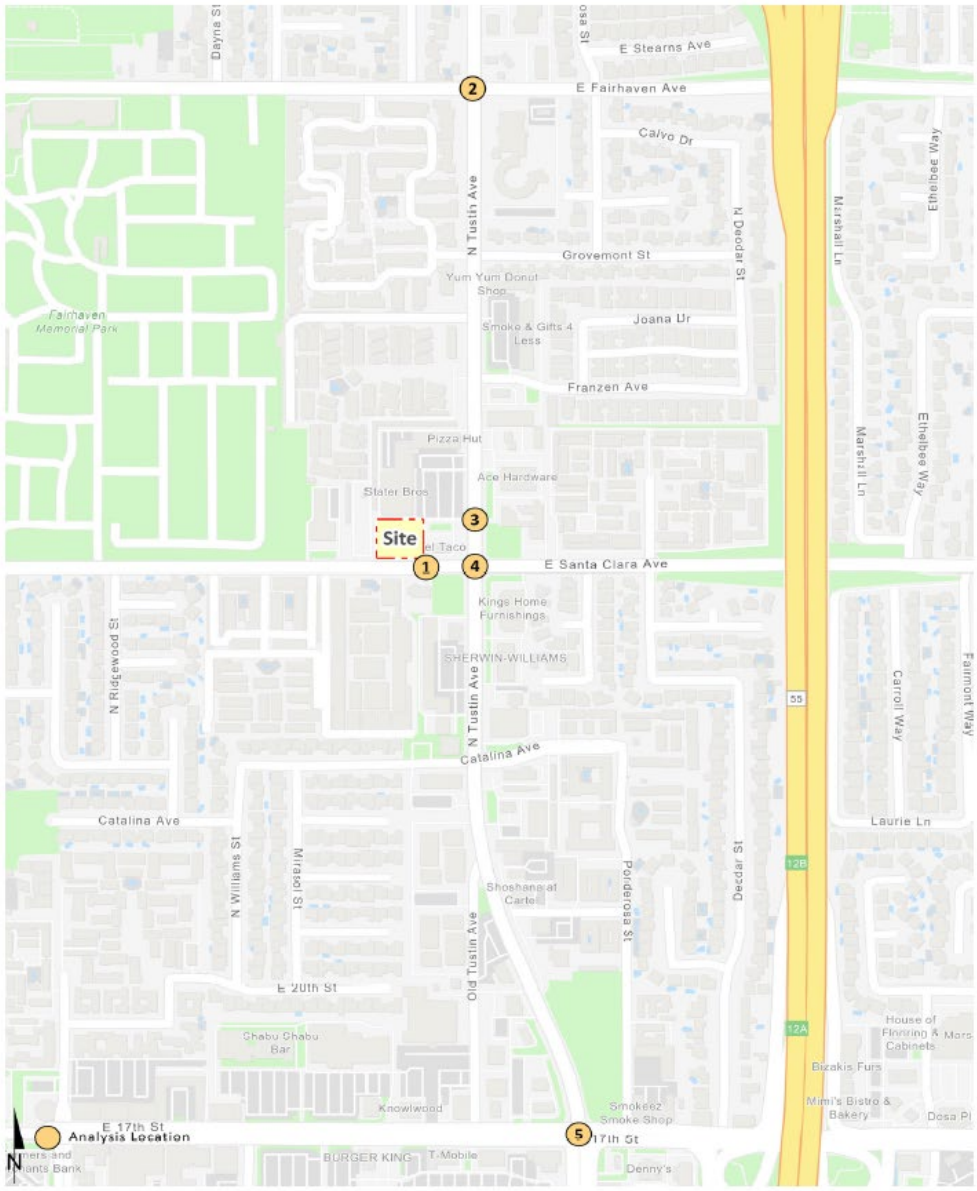
## 7.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the OCTAM (see Section 4.7 *Horizon Year (2040) Volume Development* of this TA for a detailed discussion on the post-processing methodology). The weekday peak hour volumes, in actual vehicles, which can be expected for Horizon Year (2040) Without Project traffic conditions are shown on Exhibit 7-1.

## 7.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the OCTAM, plus the traffic generated by the proposed Project. The weekday peak hour volumes, in actual vehicles, which can be expected for Horizon Year (2040) With Project traffic conditions are shown on Exhibit 7-2.

## EXHIBIT 7-1: HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | | |
|---|---|---|
| 51(97) | 40(43) | 38(78) |
| | | 466(459) |
| | | 12(0) |
| 30(58) | | |
| 1498(421) | | 2(2) |
| 6(4) | | 14(2) |

**2 Tustin Av. & Fairhaven Av.**

| | | |
|---|---|---|
| 47(113) | 2284(918) | 277(340) |
| | | 558(224) |
| | | 426(269) |
| | | 377(145) |
| 79(101) | | |
| 309(194) | | 98(275) |
| 500(177) | | 567(1439) |
| | | 110(155) |

**3 Tustin Av. & Driveway 2**

| | | |
|---|---|---|
| 22(27) | 3145(1693) | 3(1) |
| | | 3(5) |
| | | 2(0) |
| 0(1) | | |
| 18(60) | | 900(1857) |
| | | 8(11) |

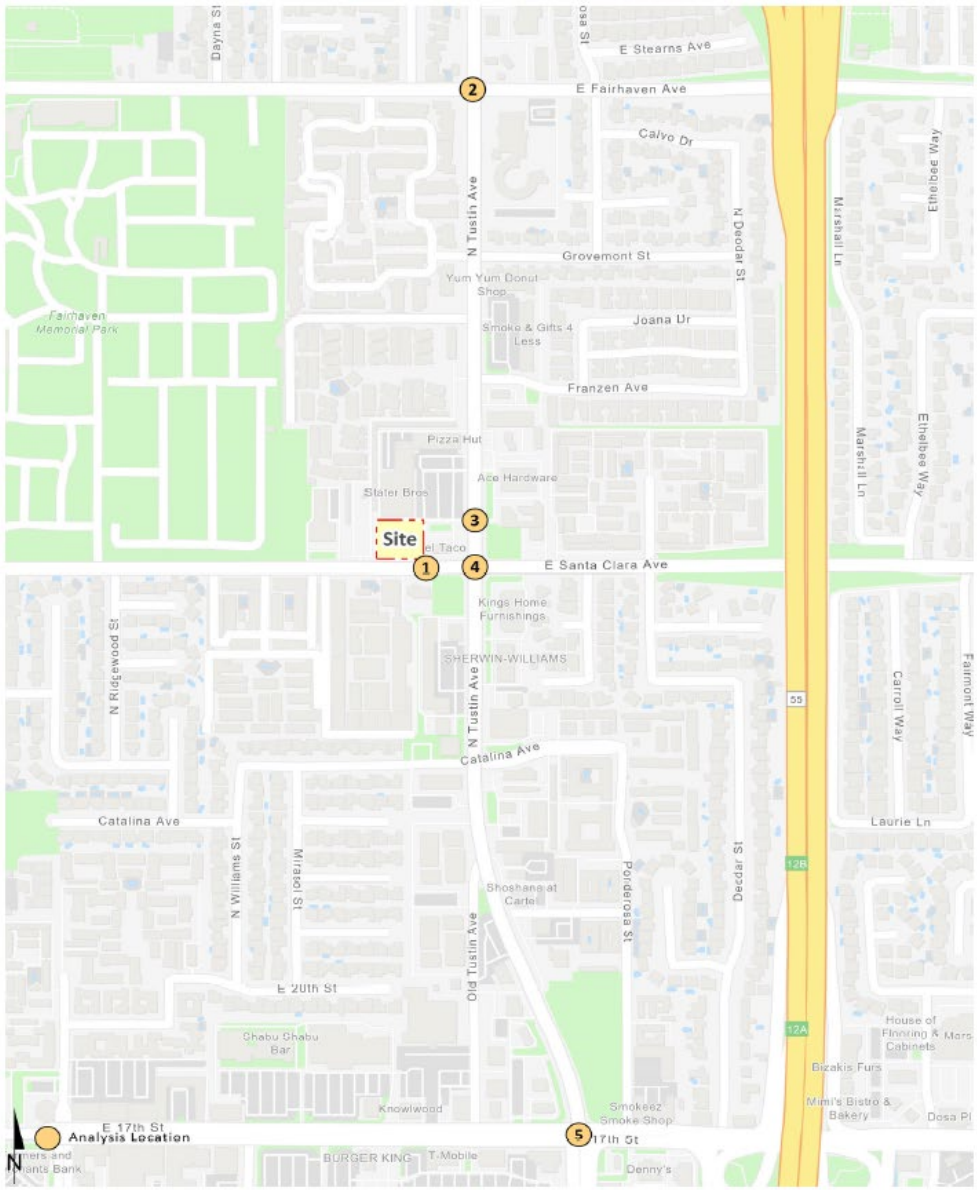
**4 Tustin Av. & Santa Clara Av.**

| | | |
|---|---|---|
| 96(124) | 2912(1401) | 141(194) |
| | | 158(152) |
| | | 301(218) |
| | | 150(125) |
| 284(116) | | |
| 705(211) | | 80(190) |
| 520(169) | | 498(1495) |
| | | 108(166) |

**5 Tustin Av. & 17th St.**

| | | |
|---|---|---|
| 24(50) | 1915(401) | 682(377) |
| | | 251(439) |
| | | 958(908) |
| | | 617(238) |
| 527(508) | | |
| 2050(980) | | 146(241) |
| 358(133) | | 222(1055) |
| | | 260(521) |

## EXHIBIT 7-2: HORIZON YEAR (2040) WITH PROJECT TRAFFIC VOLUMES




##(##) AM(PM) Peak Hour Intersection Volumes

**1 Driveway 1 & Santa Clara Av.**

| | | |
|---|---|---|
| 62(105) | 73(67) | 61(96) |
| | | 466(459) |
| | | 12(0) |
| 64(83) | | |
| 1476(405) | | 2(2) |
| 6(4) | | 14(2) |

**2 Tustin Av. & Fairhaven Av.**

| | | | |
|---|---|---|---|
| 47(113) | 2291(923) | 277(340) | 558(224) |
| | | | 426(269) |
| | | | 379(147) |
| 79(101) | | | |
| 309(194) | | 100(277) | 573(1444) |
| 502(179) | | | 112(157) |

**3 Tustin Av. & Driveway 2**

| | | | |
|---|---|---|---|
| 56(52) | 3123(1677) | 3(1) | 3(5) |
| | | | 2(0) |
| 0(1) | | | |
| 61(91) | | 911(1865) | 8(11) |

**4 Tustin Av. & Santa Clara Av.**

| | | | |
|---|---|---|---|
| 96(124) | 2918(1406) | 156(205) | 158(152) |
| | | | 313(227) |
| | | | 150(125) |
| 286(118) | | | |
| 709(214) | | 92(199) | 498(1495) |
| 524(172) | | | 108(166) |

**5 Tustin Av. & 17th St.**

| | | | |
|---|---|---|---|
| 26(52) | 1921(406) | 684(379) | 253(441) |
| | | | 958(908) |
| | | | 617(238) |
| 529(510) | | | |
| 2050(980) | | 146(241) | 229(1060) |
| 358(133) | | | 260(521) |

## 7.4 INTERSECTION OPERATIONS ANALYSIS

### 7.4.1 HORIZON YEAR (2040) WITHOUT PROJECT TRAFFIC CONDITIONS

LOS calculations were conducted for the study intersections to evaluate their operations under Horizon Year (2040) Without Project conditions with roadway and intersection geometrics consistent with Section 7.1 *Roadway Improvements*. As shown on Table 7-1, the following intersections are anticipated to operate at an unacceptable LOS under Horizon Year (2040) Without Project traffic conditions:

- Tustin Av. & Fairhaven Av. (#2) – LOS F AM peak hour
- Tustin Av. & Driveway 2 (#3) – LOS F AM peak hour
- Tustin Av. & Santa Clara Av. (#4) – LOS F AM peak hour
- Tustin Av. & 17th St. (#5) – LOS F AM peak hour

The intersection operations analysis worksheets for Horizon Year (2040) Without Project traffic conditions are included in Appendix 7.1 of this TA.

**TABLE 7-1: INTERSECTION ANALYSIS FOR HORIZON YEAR (2040) CONDITIONS**

| | | | 2040 Without Project | | | | 2040 With Project | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Delay (secs.)[2] ICU (v/c) | | Level of Service | | Change in v/c | | Project-Related |
| # | Intersection | Traffic Control[1] | AM | PM | AM | PM | AM | PM | AM | PM | AM | PM | Deficiency?[3] |
| 1 | Driveway 1 & Santa Clara Av. | CSS | 21.9 | 13.7 | C | B | 28.7 | 16.0 | D | C | -- | -- | No |
| 2 | Tustin Av. & Fairhaven Av. | TS | **1.086** | 0.690 | **F** | B | **1.090** | 0.692 | **F** | B | 0.004 | 0.002 | No |
| 3 | Tustin Av. & Driveway 2 | CSS | **66.0** | 32.3 | **F** | D | **>100.0** | 33.0 | **F** | D | -- | -- | No |
| 4 | Tustin Av. & Santa Clara Av. | TS | **1.144** | 0.658 | **F** | B | **1.155** | 0.666 | **F** | B | **0.011** | 0.008 | **Yes** |
| 5 | Tustin Av. & 17th St. | TS | **1.071** | 0.815 | **F** | D | **1.072** | 0.818 | **F** | D | 0.001 | 0.003 | No |

* **BOLD** = LOS does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] CSS = Cross-Street Stop; TS = Traffic Signal

[2] All signalized intersections will be evaluated utilizing Intersection Capacity Utilization (ICU) methodology. For intersections with all way or cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds and ICU reported as a volume-to-capacity ratio.

[3] City of Santa Ana
A transportation impact on an intersection shall be deemed "significant" in accordance with the following table:
• The peak hour Level of Service (LOS) exceeds the maximum City threshold. The City of Santa Ana considers LOS D to be the minimum acceptable LOS for all intersections, except for those locations located within the City's defined major development areas, where LOS E is considered acceptable.
• The project increases traffic demand at the study intersection by 1% of capacity (ICU increase ≥ 0.010).
• At unsignalized intersections, an impact is considered to be significant if the project causes an intersection at LOS D or better to degrade to LOS E or F and the traffic signal warrant analysis determines that a signal is justified.
City of Orange
An intersection will be deemed deficient and require improvements to achieve an acceptable LOS when the LOS is E or F (Final V/C Ratio>0.90) and the project-related increase in V/C is equal to or greater than 0.010.

### 7.4.2 HORIZON YEAR (2040) WITH PROJECT TRAFFIC CONDITIONS

With the addition of Project traffic, as shown on Table 7-1, are no additional study area intersections anticipated to operate at an unacceptable LOS during the peak hours for Horizon Year (2040) With Project traffic conditions. The addition of Project traffic would trigger the City of Santa Ana's significance criteria for the following intersection:

- Tustin Av. & Santa Clara Av. (#4) – the project increases traffic demand at the study intersection by 1% of capacity (ICU increase is greater than 0.010

The intersection operations analysis worksheets for Horizon Year (2040) With Project traffic conditions are included in Appendix 7.2 of this TA.

## 7.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for Horizon Year (2040) traffic conditions are based on the peak hour volume-based traffic signal warrants. No study area intersections are anticipated to meet peak hour volume-based warrants for Horizon Year (2040) Without Project (see Appendix 7.3). With the addition of Project traffic, there are no study area intersections anticipated to meet traffic signal warrants under Horizon Year (2040) With Project traffic conditions (see Appendix 7.4).

## 7.6 QUEUING ANALYSIS

Pursuant to the City approved scoping agreement, a queuing analysis was performed for the left turning movements at the intersection of Tustin Avenue & Santa Clara Avenue (#4) to assess vehicle queues along the roadways. Queuing analysis findings are presented in Table 7-2. It is important to note that the available stacking distances are consistent with the measured turn pocket lengths. As shown in Table 7-2, the intersection left turning movements are anticipated to experience acceptable queuing during the peak hours based on the 95th percentile peak hour traffic flows. Worksheets for Horizon Year (2040) Without Project and With Project traffic conditions queuing analysis are provided in Appendices 7.5 and 7.6, respectively.

**TABLE 7-2: QUEUING SUMMARY FOR HORIZON YEAR (2040) CONDITIONS**

| | | | 2040 Without Project | | | | 2040 With Project | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Available Stacking | 95th Percentile Queue (Feet) | | Acceptable? [1] | | 95th Percentile Queue (Feet) | | Acceptable? [1] | |
| # Intersection | Movement | Distance (Feet) | AM Peak Hour | PM Peak Hour | AM | PM | AM Peak Hour | PM Peak Hour | AM | PM |
| 4 Tustin Av. & Santa Clara Av. | NBL | 230 | 118 | 274 [2] | Yes | Yes[3] | 146 [2] | 320 [2] | Yes | Yes[3] |
| | SBL | 150 | 92 | 124 [2] | Yes | Yes | 100 | 156 [2] | Yes | Yes[1] |
| | EBL | 105 | 538 [2] | 200 [2] | Yes[3] | Yes[3] | 539 [2] | 215 [2] | Yes[3] | Yes[3] |
| | WBL | 70 | 271 [2] | 229 [2] | Yes[3] | Yes[3] | 270 [2] | 227 [2] | Yes[3] | Yes[3] |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown in this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Additional stacking distance is available in the two-way left turn lane.

## 7.7 DEFICIENCIES AND IMPROVEMENTS

### 7.7.1 INTERSECTIONS

Improvements have been identified to improve Horizon Year (2040) traffic deficiencies back to acceptable levels. The effectiveness of the proposed recommended improvements is presented in Table 7-3, which summarizes the LOS results with the proposed traffic control improvements. The intersection operations analysis worksheets for Horizon Year (2040) With Project traffic conditions, with improvements, are included in Appendix 7.7.

### TABLE 7-3: INTERSECTION ANALYSIS FOR HORIZON YEAR (2040) CONDITIONS WITH IMPROVEMENTS

| | | | Intersection Approach Lanes [2] | | | | | | | | | | | | | | Level of Service | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Traffic | Northbound | | | Southbound | | | Eastbound | | | Westbound | | | ICU (v/c) | | | |
| # | Intersection | Control[1] | L | T | R | L | T | R | L | T | R | L | T | R | AM | PM | AM | PM |
| 4 | Tustin Av. & Santa Clara Av. | | | | | | | | | | | | | | | | | |
| | -Without Improvements | TS | 1 | 3 | 0 | 2 | 3 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | **1.155** | 0.666 | **F** | B |
| | - With Improvements | TS | 2 | 3 | 0 | 2 | 3 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | **1.126** | 0.631 | **F** | B |

[1] TS = Traffic Signal

[2] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; **1** = Improvement

[3] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

### 7.7.1 QUEUES

The recommended improvements to address intersection LOS deficiencies, as shown in Table 7-3, are also reflected in Table 7-4 for the queuing analysis. Horizon Year (2040) With Project traffic conditions, with improvements, queuing analysis worksheets are provided in Appendix 7.8.

### TABLE 7-4: QUEUING SUMMARY FOR HORIZON YEAR (2040) CONDITIONS WITH IMPROVEMENTS

| | | | | Without Improvements | | | | With Improvements | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 95th Percentile Queue (Feet) | | Acceptable? [1] | | 95th Percentile Queue (Feet) | | Acceptable? [1] | |
| # | Intersection | Movement | Available Stacking Distance (Feet) | AM Peak Hour | PM Peak Hour | AM | PM | AM Peak Hour | PM Peak Hour | AM | PM |
| 4 | Tustin Av. & Santa Clara Av. | NBL | 230 | 146 [2] | 320 [2] | Yes | Yes[3] | 64 | 120 | Yes | Yes |

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown in this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Additional stacking distance is available in the two-way left turn lane.

# 8 DRIVE-THRU EVALUATION

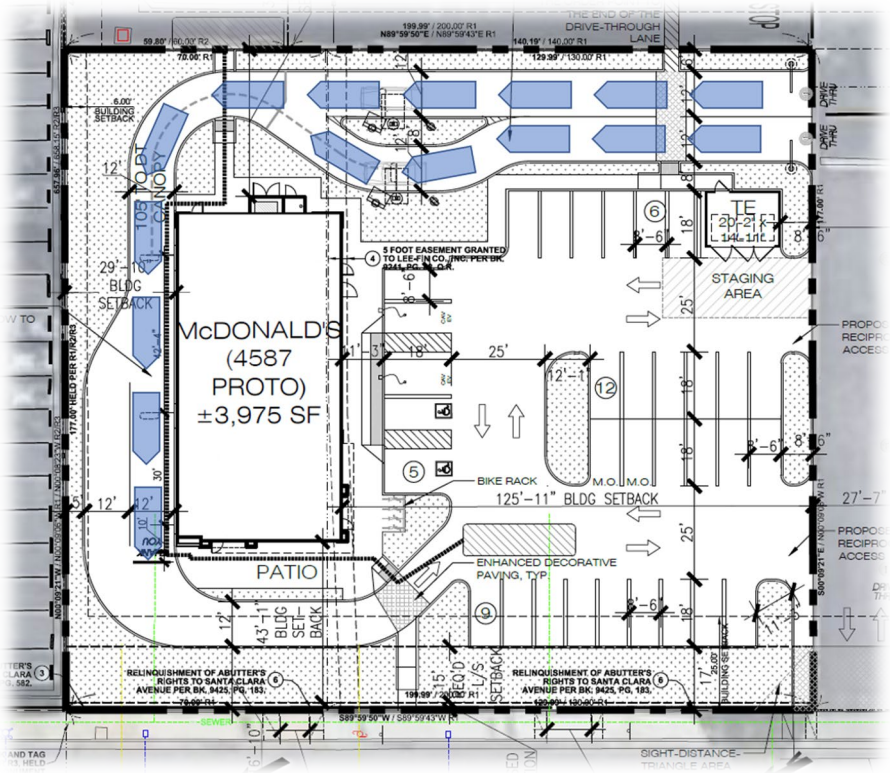
This Drive-Thru Evaluation is intended to determine if the proposed circulation plan provides adequate on-site drive-thru storage capacity to accommodate the peak on-site vehicle demands.

The proposed building will implement many of the current McDonald's restaurant design improvements. McDonald's restaurants are designed to optimize operations, drive-thru lane configurations, parking, and on-site circulation. McDonald's understands that the drive-thru wait time directly impacts the customer experience and sales. To reduce the vehicle drive-thru wait time, McDonald's has developed equipment and procedures to improve cook times and crew efficiency. These improvements include dual order boards (or a Side-By-Side drive-thru) that enables customers to place orders earlier. The Side-By-Side drive-thru allows two cars to stack next to each other. This allows the kitchen more cook time to prepare the food to have it ready by the time the customer gets to the pickup window. For a Side-By-Side drive-thru, approximately 180 seconds would elapse from the time the customer completes the order to the time the customer picks up the order from the window. Overall, the Side-By-Side drive-thru decreases total wait time and total stacking lengths during peak demands. Recognizing the benefits of the dual order boards, nearly all rebuilds and newly constructed McDonald's restaurants employ this more efficient design configuration.

## 8.1 DRIVE-THRU LANE

The proposed Circulation plan prepared on September 26, 2022 by Bickel Group Architecture as shown on Exhibit 8-1 indicates that the drive-thru lane will provide storage capacity for 16 vehicles.

**EXHIBIT 8-1: QUEUING EVALUATION**



It should be noted that approximately 20 to 25 feet per vehicle is an industry standard used to estimate the length needed for a queued vehicle. However, since the drive-thru operations involve relatively low speeds, a slightly shorter distance between vehicles is often observed. This can result in allowing more vehicles to queue in a given length. While a reduced queue length is appropriate, this analysis relies on a more conservative vehicle length of 25 feet per queued vehicle.

## 8.2 REFERENCE DRIVE-THRU LANE DATA COLLECTION

To evaluate the proposed dual drive-thru order board configuration, Urban Crossroads, Inc. collected drive-thru queuing data at three reference McDonald's restaurant locations in August 2022. The three reference queuing surveys shown on Table 8-1 were collected at similar McDonald's locations. Table 8-1 presents the existing weekday drive-thru queuing data for the breakfast and lunch conditions. The reference queueing data includes a count of each vehicle entering the drive-thru lane during peak breakfast and lunch activity. In addition, the counts describe the total number of vehicles queued in the drive-thru lane at any time. This includes vehicles queued at the pickup window, cashier window, and order board.

**TABLE 8-1: REFERENCE DRIVE-THRU QUEUEING DATA SUMMARY**

| Location | Average Vehicle Queue | | Peak Vehicle Queue | |
|---|---|---|---|---|
| | AM (7am-9am) | MD (11am-1pm) | AM (7am-9am) | MD (11am-1pm) |
| Brea[1] | 7 | 8 | 11 | 12 |
| La Palma[2] | 8 | 10 | 13 | 15 |
| South Gate[3] | 11 | 5 | 13 | 10 |

[1] Based on counts collected at the McDonald's located at 825 Imperial Highway on Thursday, August 18,2022 (Appendix 8.1).
[2] Based on counts collected at the McDonald's located at 5062 Orangethrope Avenue on Thursday, August 18, 2022 (Appendix 8.2).
[3] Based on counts collected at the McDonald's located at 3309 Tweedy Boulevard on Thursday, August 18, 2022 (Appendix 8.3).

Table 8-1 shows that the peak observed vehicle queue lengths in the drive-thru lane ranged from 10 to 15 vehicles. The average vehicle queue at the three reference McDonald's locations ranged from 5 to 11 vehicles. The maximum number of total vehicles observed in the drive-thru never exceeded 15 vehicles at any of the three reference locations.

## 8.3 DRIVE-THRU QUEUING ANALYSIS

Since the proposed McDonald's – 2109 E Santa Clara Avenue Circulation Plan provides a drive-thru storage capacity of 16 vehicles, the proposed drive-thru lane will accommodate the reference average queue length of 5 to 11 vehicles. At no time does the existing or reference peak queue exceed a maximum of 15 vehicles.

The drive-thru queuing analysis demonstrates that the maximum vehicle queue of 16 vehicles can be accommodated within the drive-thru. The site plan provides adequate drive-thru storage capacity to serve the average queue length of 5 to 11 vehicles within the drive-thru lane. During peak drive-thru demands, the site plan can accommodate a total of 16 vehicles within the drive-thru, suggesting an overflow of on-site drive-thru lane capacity approaching 1 vehicle. Peak queuing can be accommodated within the drive-thru.

# 9 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Santa Ana are funded through a combination of direct project mitigation, payment of requisite fees, construction of planned/committed improvements covered by Measure M or M2, or fair share contributions. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

## 9.1 MEASURE M

One of the primary sources of grants funds for various County road projects is the Orange County Transportation Authority (OCTA) Measure M grants. The Measure M funds are an Orange County voter-approved, 20-year ½ cent sales tax, effective in 1990, to pay for various transportation improvements throughout the County. In November 2006, this 20-year sales tax was extended for another 30 years via a voter-approved "Renewed" Measure M (M2). OCTA is the governing administrator of these funds. Measure M and M2 improvements are outlined in the seven-year Capital Improvement Program (CIP).

## 9.2 PROPOSITION 1B

Proposition 1B, which was also passed by voters in November 2006, provide bond funds for road capital and maintenance projects. The County has allocated approximately $61.6 million Proposition 1B funds to apply towards transportation improvements within the County, as determined by the County's Board of Supervisors.

## 9.3 FAIR SHARE CONTRIBUTION

Project improvements may include a combination of fee payments to established programs (e.g., DIF), construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City of Santa Ana's discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each peak hour, have been provided in Table 9-1 for the applicable deficient intersections shown previously in Table 1-3. Improvements included in a defined program and constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate.

**TABLE 9-1: PROJECT FAIR SHARE CALCULATIONS**

| # | Intersection | | Existing | Project Only | 2040 With Project Volume | Net New Traffic | Project % of New Traffic |
|---|---|---|---|---|---|---|---|
| 4 | Tustin Av. & Santa Clara Av. | | | | | | |
| | | AM: | 4,040 | 55 | 6,009 | 1,969 | 2.8% |
| | | PM: | 3,675 | 42 | 4,603 | 928 | **4.5%** |

**BOLD** = Denotes highest fair share percentage.

# 10 REFERENCES


1. **City of Santa Ana.** *Traffic Impact Study Guidelines.* Santa Ana : s.n., 2019.
2. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.
3. **City of Orange.** *Traffic Impact Analysis Guidelines for Vehicle Miles Traveled and Level of Service Assessment.* Orange : s.n., July 2020.
4. **Transportation Research Board.** *Highway Capacity Manual (HCM).* 6th Edition. s.l. : National Academy of Sciences, 2016.
5. **Husch, David and Albeck, John.** *Intersection Capacity Utilization: Evaluation Procedures for Intersections and Interchanges.* Albany, California : Trafficware, 2003 Edition. 09742903-0-0.
6. **California Department of Transportation.** California Manual on Uniform Traffic Control Devices (CA MUTCD). [book auth.] California Department of Transportation. *California Manual on Uniform Traffic Control Devices (CA MUTCD).* 2014, Updated March 30, 2021 (Revision 6).

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# APPENDIX L

# VMT SCREENING EVALUATION

December 11, 2023

Mr. Nick Kreuter
SRP Stater Bros LLC
3161 Michelson Drive | Suite 100
Irvine, CA 92612

## SANTA ANA MCDONALD'S VEHICLE MILES TRAVELED (VMT) SCREENING EVALUATION

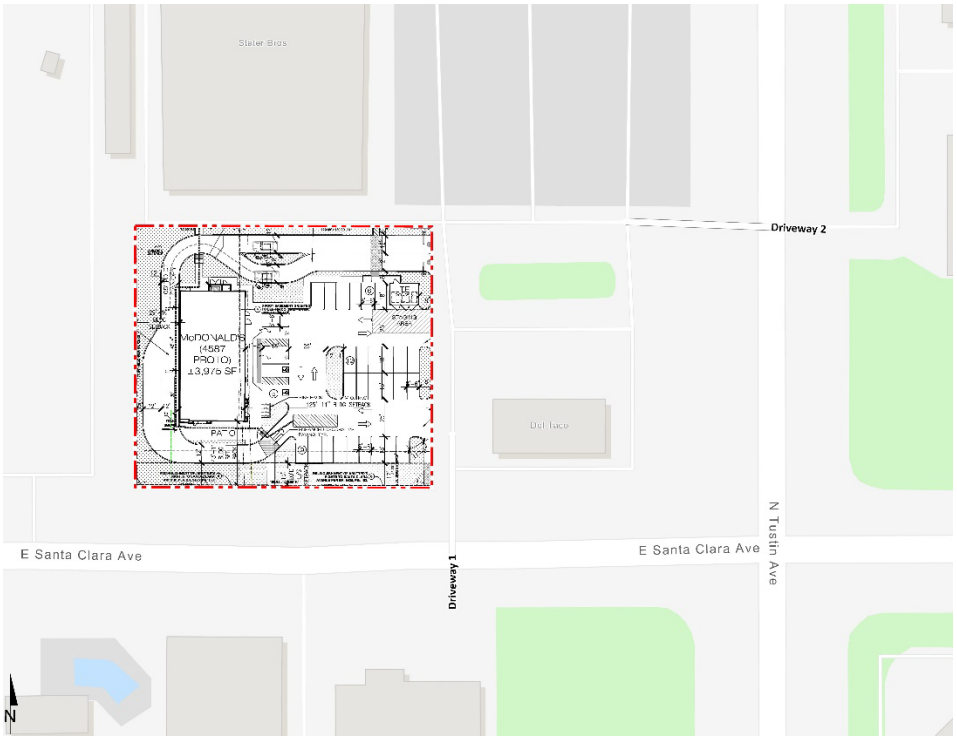
Mr. Nick Kreuter,

Urban Crossroads, Inc. is pleased to provide the following Vehicle Miles Traveled (VMT) Screening Evaluation for the Santa Ana McDonald's development (**Project**) which is located at 2109 East Santa Clara Avenue in the City of Santa Ana.

## PROJECT OVERVIEW

It is our understanding that the project is to consist of a 3,975 square foot drive-thru restaurant. Preliminary site plan can be found below in Exhibit 1.

**EXHIBIT 1: PRELIMINARY SITE PLAN**



## BACKGROUND

Changes to California Environmental Quality Act (CEQA) Guidelines were adopted in December 2018, which requires all lead agencies to adopt VMT as a replacement for automobile delay-based level of service (LOS) as the new measure for identifying transportation impacts for land use projects. This statewide mandate went into effect July 1, 2020. To aid in the transition from LOS to VMT, the Governor's Office of Planning and Research (OPR) published its Technical Advisory on Evaluating Transportation Impacts in CEQA (**Technical Advisory**) (1). Based on OPR's Technical Advisory, the City of Santa Ana has prepared their City of Santa Ana Traffic Impact Study Guidelines (September 2019) (**City Guidelines**) (2). The City Guidelines have been utilized to prepare this VMT screening evaluation.

## VMT SCREENING

The City's Guidelines list standardized screening methods for project level VMT analysis that can be used to identify when a proposed land use development project is anticipated to result in a less than significant impact thereby eliminating the need to conduct a full VMT analysis. The City of Santa Ana VMT screening types, as described within the City Guidelines, are listed below:

- Transit Priority Area (TPA) Screening
- Low VMT Area Screening
- Project Type Screening

A land use project need only to meet one of the above screening thresholds to result in a less than significant impact.

## TPA SCREENING

Consistent with guidance identified in the City Guidelines, projects located within a Transit Priority Area (TPA) (i.e., within ½ mile of an existing "major transit stop"[1] or an existing stop along a "high-quality transit corridor"[2]) may be presumed to have a less than significant impact absent substantial evidence to the contrary. However, the presumption may not be appropriate if a project:

- Has a Floor Area Ratio (FAR) of less than 0.75;
- Includes more parking for use by residents, customers, or employees of the project than required by the jurisdiction (if the jurisdiction requires the project to supply parking);

[1] Pub. Resources Code, § 21064.3 ("'Major transit stop' means a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods.").
[2] Pub. Resources Code, § 21155 ("For purposes of this section, a high-quality transit corridor means a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.").

- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the lead agency, with input from the Metropolitan Planning Organization); or
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

The Project site is not located within ½ mile of an existing major transit stop, or along a high-quality transit corridor (See Attachment A).

**TPA screening threshold is not met.**

## LOW VMT AREA SCREENING

As noted in the Technical Advisory consistent with the City Guidelines, "Residential and office projects located within a low VMT generating area may be presumed to have a less than significant impact absent substantial evidence to the contrary. In addition, other employment related uses and mixed use land use projects may qualify for the use of screening if the project can reasonably be expected to generate VMT per resident, per worker, or per service population that is similar to the existing land uses in the low VMT area." The City Guidelines provides a map of transportation analysis zones (TAZs) within the City that are 15% below the Orange County average. Projects located in these areas presumed to have a less than significant impact on VMT if the following additional secondary screening step are satisfied:

1. Verify that the proposed land use is consistent with the existing land use that is generating low VMT/SP. This will include a land use (type, density, demographics, etc.) comparison.
2. Verify that the proposed land use is consistent with RTP/SCS assumptions or the project decreases VMT/SP compared to the RTP/SCS.

The Project is located within a low VMT generating area (see Attachment B). However, the Project is not consistent the RTP/SCS and does not meet the secondary criteria.

**Low VMT Area screening criteria is not met**

## PROJECT TYPE SCREENING

The City Guidelines describe that local serving retail projects less than 50,000 square feet may be presumed to have a less than significant impact absent substantial evidence to the contrary.

The Project proposes to develop a drive-thru quick serve restaurant of 3,975 square feet which is below the 50,000 square feet project type screening threshold as identified by the City Guidelines.

**Project Type screening criteria is met.**

## CONCLUSION

In summary, the Project was evaluated consistent with the available screening criteria. The Project was found to meet the Project Type screening criteria. The Proposed Project is presumed to result in a less than significant impact for VMT; no further VMT analysis required.

If you have any questions, please contact me directly at aso@urbanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

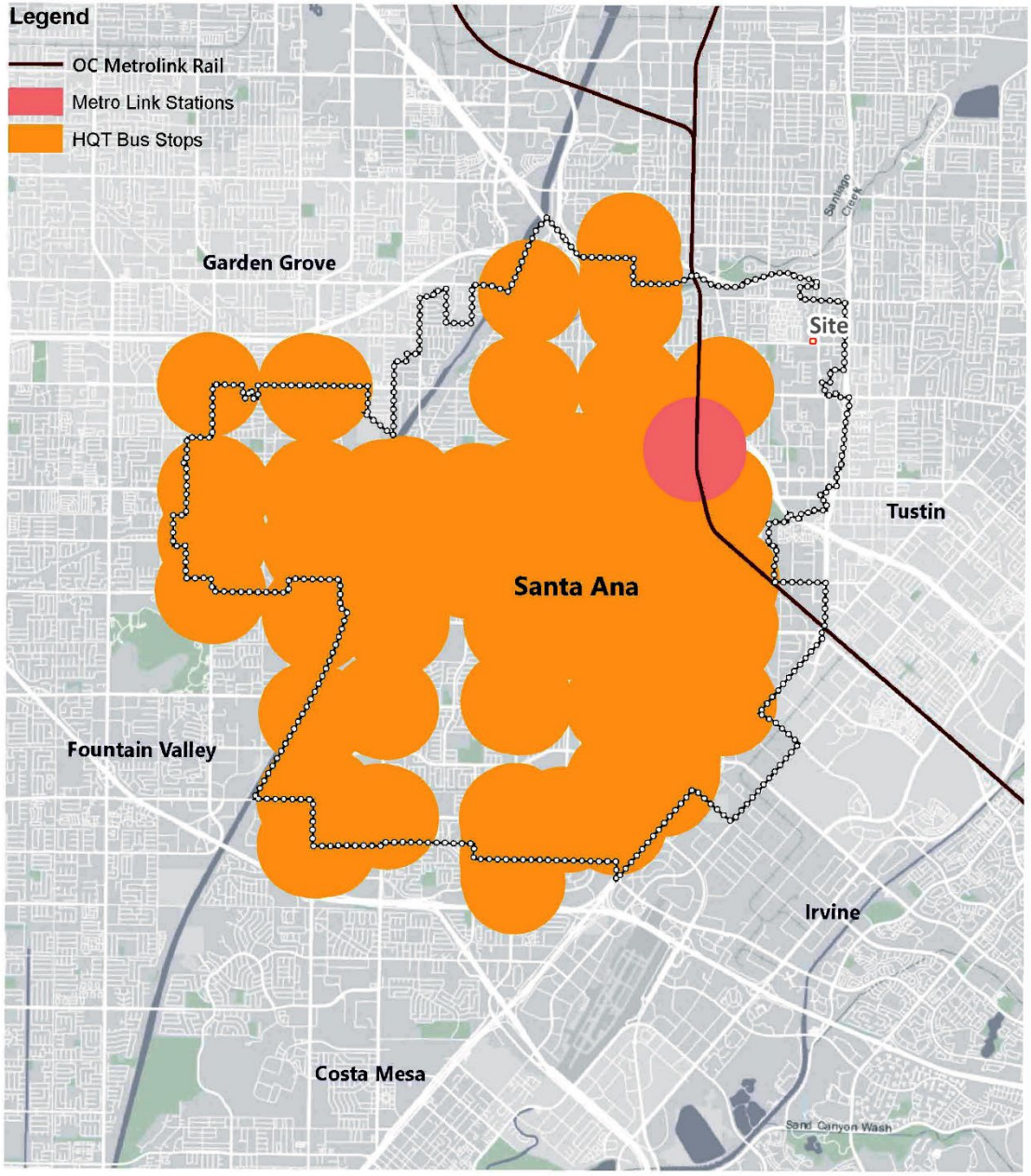
Alexander So
Senior Associate

## REFERENCES


1. **Office of Planning and Research.** *Technical Advisory on Evaluating Transportation Impacts in CEQA.* State of California : s.n., December 2018.
2. **City of Santa Ana.** *City of Santa Ana Traffic Impact StudybGuidelines.* September 2019.

# ATTACHMENT A

# TPA MAP

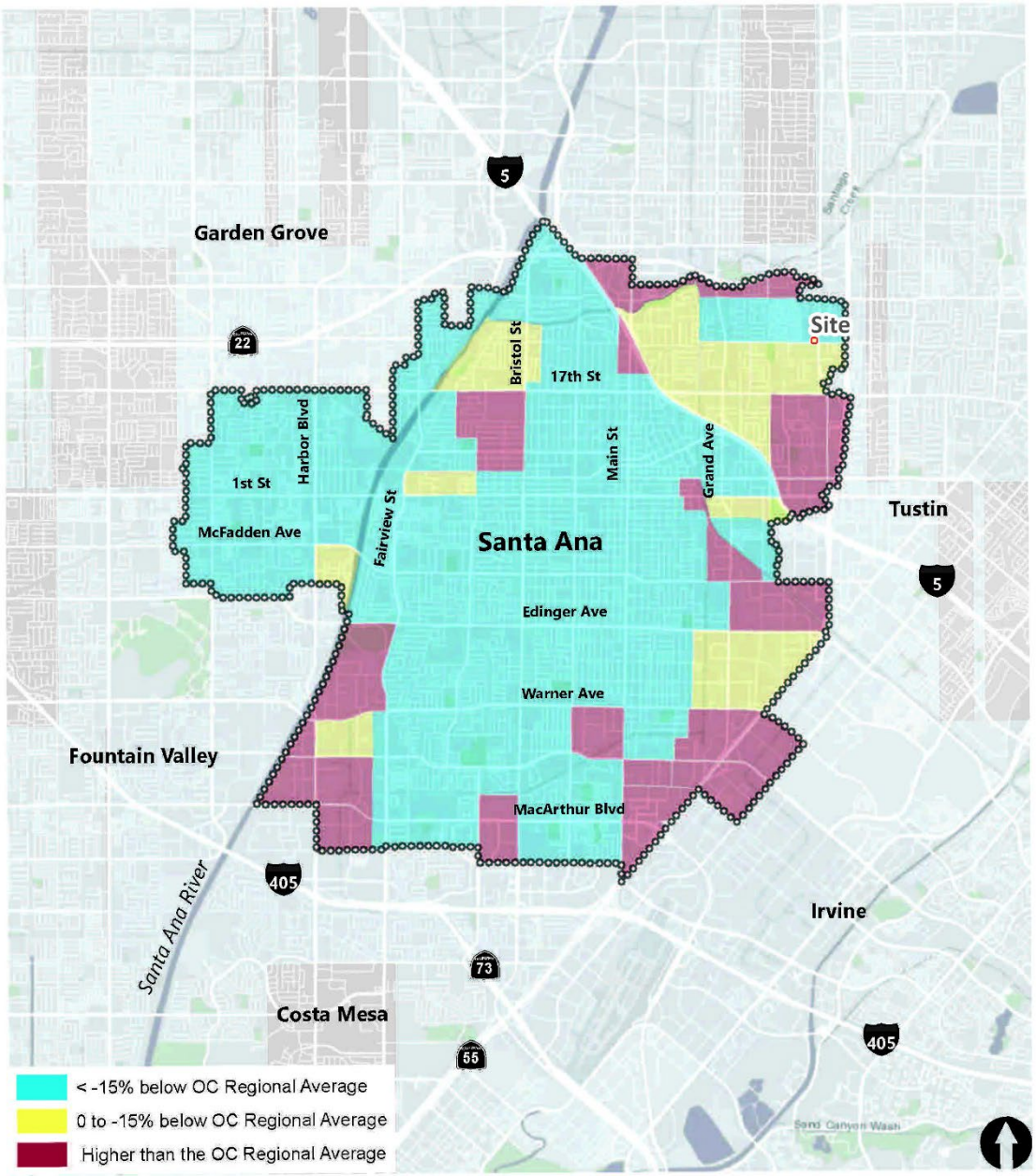



Appendix A

Santa Ana Transit Priority Areas

# ATTACHMENT B

# LOW AREA VMT MAP




Appendix B

VMT/SP in Santa Ana as Compared to Orange County Average

# APPENDIX M

# AB 52 TRIBAL CONSULTATION

# NATIVE AMERICAN HERITAGE COMMISSION

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September 7, 2023

Fernanda Arias
City of Santa Ana – Planning Division

Via Email to: Farias@santa-ana.org

**Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, McDonald's at Santa Clara Avenue Project, Orange County**

Dear Ms. Arias:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

*Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.*

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

   - Any report that may contain site forms, site significance, and suggested mitigation measures.

     All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green
*Cultural Resources Analyst*

Attachment

**Native American Heritage Commission**
**Native American Contact List**
**Orange County**
**9/7/2023**

| Tribe Name | Fed (F) Non-Fed (N) | Contact Person | Contact Address | Phone # | Fax # | Email Address | Cultural Affiliation | Counties | Last Updated |
|---|---|---|---|---|---|---|---|---|---|
| Campo Band of Diegueno Mission Indians | F | Ralph Goff, Chairperson | 36190 Church Road, Suite 1<br>Campo, CA, 91906 | (619) 478-9046 | (619) 478-5818 | rgoff@campo-nsn.gov | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Ewiiaapaayp Band of Kumeyaay Indians | F | Robert Pinto, Chairperson | 4054 Willows Road<br>Alpine, CA, 91901 | (619) 368-4382 | (619) 445-9126 | ceo@ebki-nsn.gov | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Ewiiaapaayp Band of Kumeyaay Indians | F | Michael Garcia, Vice Chairperson | 4054 Willows Road<br>Alpine, CA, 91901 | (619) 933-2200 | (619) 445-9126 | michaelg@leaningrock.net | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Gabrieleno Band of Mission Indians - Kizh Nation | N | Andrew Salas, Chairperson | P.O. Box 393<br>Covina, CA, 91723 | (844) 390-0787 | | admin@gabrielenoindians.org | Gabrieleno | Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura | 8/18/2023 |
| Gabrieleno Band of Mission Indians - Kizh Nation | N | Christina Swindall Martinez, Secretary | P.O. Box 393<br>Covina, CA, 91723 | (844) 390-0787 | | admin@gabrielenoindians.org | Gabrieleno | Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura | 8/18/2023 |
| Gabrieleno/Tongva San Gabriel Band of Mission Indians | N | Anthony Morales, Chairperson | P.O. Box 693<br>San Gabriel, CA, 91778 | (626) 483-3564 | (626) 286-1262 | GTTribalcouncil@aol.com | Gabrieleno | Los Angeles,Orange,Riverside,San Bernardino,Ventura | |
| Gabrielino /Tongva Nation | N | Sandonne Goad, Chairperson | 106 1/2 Judge John Aiso St., #231<br>Los Angeles, CA, 90012 | (951) 807-0479 | | sgoad@gabrielino-tongva.com | Gabrielino | Los Angeles,Orange,Riverside,San Bernardino,Ventura | 3/28/2023 |
| Gabrielino Tongva Indians of California Tribal Council | N | Christina Conley, Cultural Resource Administrator | P.O. Box 941078<br>Simi Valley, CA, 93094 | (626) 407-8761 | | christina.marsden@alumni.usc.edu | Gabrielino | Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura | 3/16/2023 |
| Gabrielino Tongva Indians of California Tribal Council | N | Robert Dorame, Chairperson | P.O. Box 490<br>Bellflower, CA, 90707 | (562) 761-6417 | (562) 761-6417 | gtongva@gmail.com | Gabrielino | Los Angeles,Orange,Riverside,San Bernardino,Santa Barbara,Ventura | 3/16/2023 |
| Gabrielino-Tongva Tribe | N | Charles Alvarez, Chairperson | 23454 Vanowen Street<br>West Hills, CA, 91307 | (310) 403-6048 | | Chavez1956metro@gmail.com | Gabrielino | Los Angeles,Orange,Riverside,San Bernardino,Ventura | 5/30/2023 |
| Gabrielino-Tongva Tribe | N | Sam Dunlap, Cultural Resource Director | P.O. Box 3919<br>Seal Beach, CA, 90740 | (909) 262-9351 | | tongvatcr@gmail.com | Gabrielino | Los Angeles,Orange,Riverside,San Bernardino,Ventura | 5/30/2023 |
| Juaneno Band of Mission Indians Acjachemen Nation - Belardes | N | Joyce Perry, Cultural Resource Director | 4955 Paseo Segovia<br>Irvine, CA, 92603 | (949) 293-8522 | | kaamalam@gmail.com | Juaneno | Los Angeles,Orange,Riverside,San Bernardino,San Diego | 3/17/2023 |
| Juaneno Band of Mission Indians Acjachemen Nation 84A | N | Heidi Lucero, Chairperson, THPO | 31411-A La Matanza Street<br>San Juan Capistrano, CA, 92675 | (562) 879-2884 | | jbmian.chairwoman@gmail.com | Juaneno | Los Angeles,Orange,Riverside,San Bernardino,San Diego | 3/28/2023 |

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|---|---|---|---|---|---|---|---|---|---|
| La Posta Band of Diegueno Mission Indians | F | Gwendolyn Parada, Chairperson | 8 Crestwood Road<br>Boulevard, CA, 91905 | (619) 478-2113 | (619) 478-2125 | LP13boots@aol.com | Diegueno | Imperial,Orange,Riverside,San Diego | |
| La Posta Band of Diegueno Mission Indians | F | Javaughn Miller, Tribal Administrator | 8 Crestwood Road<br>Boulevard, CA, 91905 | (619) 478-2113 | (619) 478-2125 | jmiller@LPtribe.net | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Manzanita Band of Kumeyaay Nation | F | Angela Elliott Santos, Chairperson | P.O. Box 1302<br>Boulevard, CA, 91905 | (619) 766-4930 | (619) 766-4957 | | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Mesa Grande Band of Diegueno Mission Indians | F | Michael Linton, Chairperson | P.O Box 270<br>Santa Ysabel, CA, 92070 | (760) 782-3818 | (760) 782-9092 | mesagrandeband@msn.com | Diegueno | Imperial,Orange,Riverside,San Diego | |
| Pala Band of Mission Indians | F | Shasta Gaughen, Tribal Historic Preservation Officer | PMB 50, 35008 Pala Temecula Road<br>Pala, CA, 92059 | (760) 891-3515 | (760) 742-3189 | sgaughen@palatribe.com | Cupeno<br>Luiseno | Orange,Riverside,San Bernardino,San Diego | 3/23/2023 |
| Pala Band of Mission Indians | F | Alexis Wallick, Assistant THPO | PMB 50, 35008 Pala Temecula Road<br>Pala, CA, 92059 | (760) 891-3537 | | awallick@palatribe.com | Cupeno<br>Luiseno | Orange,Riverside,San Bernardino,San Diego | 3/23/2023 |
| Santa Rosa Band of Cahuilla Indians | F | Lovina Redner, Tribal Chair | P.O. Box 391820<br>Anza, CA, 92539 | (951) 659-2700 | (951) 659-2228 | lsaul@santarosa-nsn.gov | Cahuilla | Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego | |
| Soboba Band of Luiseno Indians | F | Joseph Ontiveros, Tribal Historic Preservation Officer | P.O. Box 487<br>San Jacinto, CA, 92581 | (951) 663-5279 | (951) 654-4198 | jontiveros@soboba-nsn.gov | Cahuilla<br>Luiseno | Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego | 7/14/2023 |
| Soboba Band of Luiseno Indians | F | Jessica Valdez, Cultural Resource Specialist | P.O. Box 487<br>San Jacinto, CA, 92581 | (951) 663-6261 | (951) 654-4198 | jvaldez@soboba-nsn.gov | Cahuilla<br>Luiseno | Imperial,Los Angeles,Orange,Riverside,San Bernardino,San Diego | 7/14/2023 |

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

Record: PROJ-2023-004510
Report Type: AB52 GIS
Counties: Orange
NAHC Group: All

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed McDonald's at Santa Clara Avenue Project, Orange County.

MAYOR
Valerie Amezcua
MAYOR PRO TEM
Jessie Lopez
COUNCILMEMBERS
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Johnathan Ryan Hernandez
David Penaloza
Thai Viet Phan
Benjamin Vazquez

CITY MANAGER
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Jennifer L. Hall

CITY OF SANTA ANA
Planning and Building Agency
20 Civic Center Plaza ● P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

October 2, 2023 *Also sent via email to: rgoff@campo-nsn.gov*

Campo Band of Diegueno Mission Indians
Ralph Goff, Chairperson
36190 Church Road, Suite 1
Campo, CA, 91906

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Chairperson,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

The IS/MND is intended to serve as the primary CEQA environmental document for all actions associated with the proposed Project, including all other approvals beyond the City's authority needed to implement the Project. The following discretionary approvals are required for Project approval.

- Conditional Use Permit – The Project would request a Conditional Use Permit (CUP), required to allow a drive-thru eating establishment and a second CUP to allow for after-hours operations between 12 AM to 5 AM located within 150 feet of residential property.
- Amendment Application (Zone Change) – The Project site is currently zoned as A1 (Agricultural), and the Project includes an Amendment Application (i.e. Zone Change) to change the zoning classification to C5 (Arterial Commercial).

SANTA ANA CITY COUNCIL

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Jessie Lopez, Mayor Pro Tem, Ward 3, jessielopez@santa-ana.org
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The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Campo Band of Diegueno Mission Indians is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to:* michaelg@leaningrock.net

Ewiiaapaayp Band of Kumeyaay Indians
Michael Garcia, Vice Chairperson
4054 Willows Road
Alpine, CA, 91901

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Vice Chairperson,

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Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: ceo@ebki-nsn.gov*

Ewiiaapaayp Band of Kumeyaay Indians
Robert Pinto, Chairperson
4054 Willows Road
Alpine, CA, 91901

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

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Sincerely,

Pedro Gomez

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Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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# CITY OF SANTA ANA

**Planning and Building Agency**
20 Civic Center Plaza ● P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

October 2, 2023 *Also sent via email to: admin@gabrielenoindians.org*

Gabrieleno Band of Mission Indians - Kizh Nation
Christina Swindall Martinez, Secretary
P.O. Box 393
Covina, CA, 91723

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Ms. Martinez,

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Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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# CITY OF SANTA ANA

**Planning and Building Agency**
20 Civic Center Plaza ● P.O. Box 1988
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October 2, 2023 *Also sent via email to: admin@gabrielenoindians.org*

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina, CA, 91723

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- Mitigated Negative Declaration – In compliance with CEQA and the State CEQA Guidelines, the City of Santa Ana would adopt the MND concurrent with approval of the Project. The MND serves as a finding that the Project would not have a significant effect on the environment.

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Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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CITY OF SANTA ANA
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www.santa-ana.org

October 2, 2023 *Also sent via email to: GTTribalcouncil@aol.com*

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA, 91778

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Chairperson,

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October 2, 2023 *Also sent via email to: gtongva@gmail.com*

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, CA, 90707

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Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: christina.marsden@alumni.usc.edu*

Gabrielino Tongva Indians of California Tribal Council
Christina Conley, Cultural Resource Administrator
P.O. Box 941078
Simi Valley, CA, 93094

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Ms. Conley,

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Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: sgoad@gabrielino-tongva.com*

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231
Los Angeles, CA, 90012

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

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October 2, 2023 *Also sent via email to: tongvatcr@gmail.com*

Gabrielino-Tongva Tribe
Sam Dunlap, Cultural Resource Director
P.O. Box 3919
Seal Beach, CA, 90740

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

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October 2, 2023 *Also sent via email to: Chavez1956metro@gmail.com*

Gabrielino-Tongva Tribe
Charles Alvarez, Chairperson
23454 Vanowen Street
West Hills, CA, 91307

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October 2, 2023 *Also sent via email to: kaamalam@gmail.com*

Juaneno Band of Mission Indians Acjachemen Nation - Belardes
Joyce Perry, Cultural Resource Director
4955 Paseo Segovia
Irvine, CA, 92603

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Ms. Perry,

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October 2, 2023 *Also sent via email to: jbmian.chairwoman@gmail.com*

Juaneno Band of Mission Indians Acjachemen Nation 84A
Heidi Lucero, Chairperson, THPO
31411-A La Matanza Street
San Juan Capistrano, CA, 92675

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jryanhernandez@santa-ana.org

David Penaloza
Ward 6
dpenaloza@santa-ana.org

- Mitigated Negative Declaration – In compliance with CEQA and the State CEQA Guidelines, the City of Santa Ana would adopt the MND concurrent with approval of the Project. The MND serves as a finding that the Project would not have a significant effect on the environment.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Juaneno Band of Mission Indians Acjachemen Nation 84A is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

MAYOR
Valerie Amezcua
MAYOR PRO TEM
Jessie Lopez
COUNCILMEMBERS
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Benjamin Vazquez

CITY MANAGER
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CITY OF SANTA ANA
Planning and Building Agency
20 Civic Center Plaza ● P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

October 2, 2023 *Also sent via email to: jmiller@LPtribe.net*

La Posta Band of Diegueno Mission Indians
Javaughn Miller, Tribal Administrator
8 Crestwood Road
Boulevard, CA, 91905

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Javaughn Miller,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

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SANTA ANA CITY COUNCIL

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vamezcua@santa-ana.org

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Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: LP13boots@aol.com*

La Posta Band of Diegueno Mission Indians
Gwendolyn Parada, Chairperson
8 Crestwood Road
Boulevard, CA, 91905

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Chairperson,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

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Pedro Gomez

Pedro Gomez, AICP
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Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023

Manzanita Band of Kumeyaay Nation
Angela Elliott Santos, Chairperson
P.O. Box 1302
Boulevard, CA, 91905

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Chairperson,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

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Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: mesagrandeband@msn.com*

Mesa Grande Band of Diegueno Mission Indians
Michael Linton, Chairperson
P.O Box 270
Santa Ysabel, CA, 92070

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Chairperson,

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The input of the Mesa Grande Band of Diegueno Mission Indians is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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# CITY OF SANTA ANA

**Planning and Building Agency**
20 Civic Center Plaza ● P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

October 2, 2023 *Also sent via email to: awallick@palatribe.com*

Pala Band of Mission Indians
Alexis Wallick, Assistant THPO
PMB 50, 35008 Pala Temecula Road
Pala, CA, 92059

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Alexis Wallick,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

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The input of the Pala Band of Mission Indians is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

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Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: sgaughen@palatribe.com*

Pala Band of Mission Indians
Shasta Gaughen, Tribal Historic Preservation Officer
PMB 50, 35008 Pala Temecula Road
Pala, CA, 92059

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Shasta Gaughen,

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Pedro Gomez

Pedro Gomez, AICP
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Enclosure: Project Vicinity Map and Project Location Map

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# CITY OF SANTA ANA

**Planning and Building Agency**
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October 2, 2023 *Also sent via email to: lsaul@santarosa-nsn.gov*

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820
Anza, CA, 92539

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Tribal Chair,

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The input of the Santa Rosa Band of Cahuilla Indians is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

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Enclosure: Project Vicinity Map and Project Location Map

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October 2, 2023 *Also sent via email to: jvaldez@soboba-nsn.gov*

Soboba Band of Luiseno Indians
Jessica Valdez, Cultural Resource Specialist
P.O. Box 487
San Jacinto, CA, 92581

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Jessica Valdez,

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- Mitigated Negative Declaration – In compliance with CEQA and the State CEQA Guidelines, the City of Santa Ana would adopt the MND concurrent with approval of the Project. The MND serves as a finding that the Project would not have a significant effect on the environment.

The proposed project must comply with California Public Resources Code § 21080.3.1 (Assembly Bill [AB] 52 of 2014), which requires local governments to conduct meaningful consultation with California Native American tribes that have requested to be notified by lead agencies of proposed projects in the geographic area with which the tribe is traditionally and culturally affiliated.

The input of the Soboba Band of Luiseno Indians is important to the City of Santa Ana's planning process. Under AB 52, you have 30 days from receipt of this letter to respond in writing if you wish you to consult on the proposed project. If you require any additional information or have any questions, please contact me at (714) 667-2790 or via e-mail at pgomez@santa-ana.org. Thank you for your assistance.

Sincerely,

Pedro Gomez

Pedro Gomez, AICP
Senior Planner, City of Santa Ana

Enclosure: Project Vicinity Map and Project Location Map

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CITY OF SANTA ANA
Planning and Building Agency
20 Civic Center Plaza ● P.O. Box 1988
Santa Ana, California 92702
www.santa-ana.org

October 2, 2023 *Also sent via email to: jontiveros@soboba-nsn.gov*

Soboba Band of Luiseno Indians
Joseph Ontiveros, Tribal Historic Preservation Officer
P.O. Box 487
San Jacinto, CA, 92581

**RE: AB 52 Consultation, Cultural Resources Study for the McDonald's at Santa Clara Avenue Project, Santa Ana, California**

Dear Joseph Ontiveros,

The City of Santa Ana is preparing an Initial Study/Mitigated Negative Declaration (IS/MND) for the demolition and removal of two residential structures and associated improvements, including the associated pool, asphalt concrete paving, and vegetation, to accommodate the proposed development ("Project") at the property addressed as 2101 and 2109 East Santa Clara Avenue (collectively referred to as 2101 East Santa Clara Avenue). The Project proposes to construct a 3,975 SF one-story McDonald's restaurant and associated drive-thru, surface parking lot, and landscaping. Overall, the Project would develop the entire 0.82-acre site, which involves building area, other impervious surfaces, and landscaping.

The IS/MND is intended to serve as the primary CEQA environmental document for all actions associated with the proposed Project, including all other approvals beyond the City's authority needed to implement the Project. The following discretionary approvals are required for Project approval.

- Conditional Use Permit – The Project would request a Conditional Use Permit (CUP), required to allow a drive-thru eating establishment and a second CUP to allow for after-hours operations between 12 AM to 5 AM located within 150 feet of residential property.
- Amendment Application (Zone Change) – The Project site is currently zoned as A1 (Agricultural), and the Project includes an Amendment Application (i.e. Zone Change) to change the zoning classification to C5 (Arterial Commercial).

SANTA ANA CITY COUNCIL

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- Mitigated Negative Declaration – In compliance with CEQA and the State CEQA Guidelines, the City of Santa Ana would adopt the MND concurrent with approval of the Project. The MND serves as a finding that the Project would not have a significant effect on the environment.

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