San Joaquin Joint Powers Authority

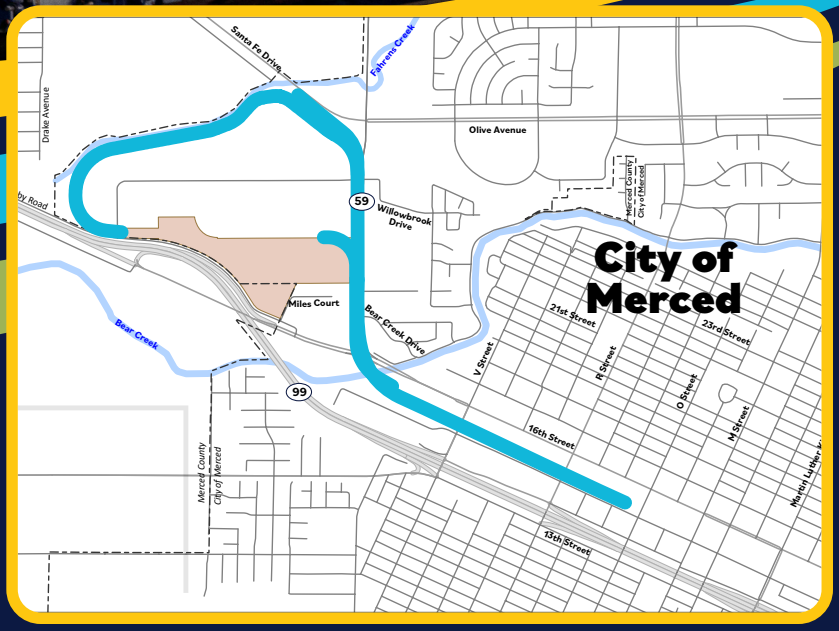
MITC
Merced Intermodal Track Connection

Appendix 3.3-1:

Air Quality, Greenhouse Gas, and Health Risk Assessment Supporting Documentation

July 2024

SCH # 2023010061



Introduction

This appendix provides model outputs and calculations for the air quality and greenhouse gas (GHG) analyses presented in Chapter 3.3, *Air Quality and Greenhouse Gases*. The following sections and content are included in this appendix.

Section 1. Construction

Presents the CalEEMod model outputs for the Project and H1 Variant construction analysis. CalEEMod was used to quantify emissions from off-road equipment exhaust, employee and haul truck vehicle exhaust (on-road vehicles), site grading, earth moving, paving, and demolition. CalEEMod does not estimate emissions from locomotive exhaust (freight deliveries). These emissions were quantified using emission factors and standards from USEPA. The locomotive emissions calculations and assumptions are presented after the CalEEMod outputs.

Section 2. Operations

Presents the model outputs and calculations for the operational emissions analyses for the no Project, Project, and variant analyses. The section is divided into the following subsections.

Section 2.1. San Joaquins Operations

Presents emissions calculations and assumptions for San Joaquins operation under existing (2022), opening (2032), and horizon (2040) year conditions. Movement emissions were quantified based on daily San Joaquins operating hours and emission factors from USEPA. Ilding emissions were quantified based on daily idling time at stations and the maintenance facility. Existing conditions assume use of diesel locomotives. The no Project and Project conditions assume use of renewable diesel locomotives. The project Variant conditions assume use of hydrogen and renewable diesel locomotives.

Section 2.2. CalEEMod Operations

Presents the CalEEMod model outputs for station and maintenance facility operations. CalEEMod was used to quantify emissions from utility consumption, area sources (e.g., building upkeep), mobile sources (e.g., employee trips), and stationary sources (e.g., generators). Outputs are presented for existing (2022), opening (2032), and horizon (2040) year conditions. The opening year and horizon year conditions include outputs for the no Project, Project, and H1 Variant under the 8 train and 12 train scenarios.

Section 2.3. Bus Bridge Operation

Presents emissions calculations and assumptions for the bus bridge that would operate under future no Project conditions. Emissions were quantified using trip and VMT data from AECOM and calendar year average bus emission factors for Merced County obtained from EMFAC2021.

Section 2.4. Connecting Bus Transit Operation

Presents emissions calculations and assumptions for connecting bus transit under existing (2022), opening (2032), and horizon (2040) year conditions. Emissions were quantified using trip and VMT

data from AECOM and calendar year average bus emission factors for Merced County obtained from EMFAC2021.

Section 2.5. Avoided Trips and VMT

Presents emissions calculations and assumptions for annual avoided VMT and trips under existing (2022), opening (2032), and horizon (2040) year conditions. Emissions were quantified using trip and VMT data from AECOM and regional (i.e., air basin) vehicle-weighted emission factors for light-duty automobile, light-duty truck, and medium-duty vehicles obtained from EMFAC2021.

Section 2.6. Hydrogen Variant Fuel Transport

Presents emissions calculations and assumptions for transport of offsite hydrogen fuel for the project Variants. Offsite hydrogen fuel transport under the H1 Variant would only occur under the 12-train scenario; offsite hydrogen fuel transport under the H2 and H3 Variants would occur under the 8-train and 12-train scenarios. Emissions were quantified using the assumptions further described in Section 3, *Well-to-Wheels Greenhouse Gas Analysis,* of this appendix. Analyses for the H1 and H2 Variants used vehicle emission factors from EMFAC2021. Analysis for the H3 Variant used freight rail emission factors obtained from the USEPA.

Section 2.7. Total Emissions by Source and Condition

Summarizes the emissions by source (e.g., San Joaquins Operations, bus bridge) for existing (2022), opening (2032), and horizon (2040) year conditions. Emissions are presented by air basin and district for the 8-train and 12-train scenarios.

Section 3. Well-to-Wheels Greenhouse Gas Analysis

Describes the assumptions, data, emission factors, and calculation methods for the analysis of well-to-wheel GHG emissions for the project Variants. Detailed emissions results for the 8-train and 12-train scenarios are presented.

Section 4. Construction HRA

Presents the AERMOD model inputs and outputs for the Project and H1 Variant construction health risk assessment (HRA).

Section 5. Operations HRA

Presents the AERMOD model inputs and outputs for the operational HRA for the no Project and Project analyses. The operational HRA includes emissions contribution from San Joaquins operation (train movement and idling), emergency generators, and on-road (bus and truck) sources. Emission density calculations for these sources are included in the section.

Section 6. CO Screening

Presents the CALINE4 model output for the carbon monoxide (CO) screening analysis. CO concentrations were modeled at the intersection of South San Joaquin Street and East Hazelton Avenue.

Section 7. Operations Analysis of 12 Daily Roundtrips

Summarizes net operations criteria pollutant and GHG emissions by air basin under the 12 daily roundtrip service schedule. Refer to Section 2, *Operations*, of this appendix for emissions calculations and model outputs by source.

Section 1. Construction

Presents the CalEEMod model outputs for the Project and H1 Variant construction analysis. CalEEMod was used to quantify emissions from off-road equipment exhaust, employee and haul truck vehicle exhaust (on-road vehicles), site grading, earth moving, paving, and demolition. CalEEMod does not estimate emissions from locomotive exhaust (freight deliveries). These emissions were quantified using emission factors and standards from USEPA. The locomotive emissions calculations and assumptions are presented after the CalEEMod outputs.

MITC Construction Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC Construction
Construction Start Date	7/1/2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31176174388196, -120.50902274515714
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
User Defined Industrial	1.00	User Defined Unit	9.00	0.00	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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.83	7.41	59.1	65.3	0.14	2.67	42.4	43.0	2.46	9.84	12.3	—	15,320	15,320	0.54	0.46	6.81	15,479
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.18	5.17	41.9	51.0	0.11	1.71	70.2	71.6	1.58	9.03	10.6	—	12,361	12,361	0.44	0.47	0.18	12,495
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.16	2.65	21.0	25.9	0.05	0.88	26.1	27.0	0.81	3.86	4.67	—	6,022	6,022	0.21	0.21	1.40	6,089
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.48	3.82	4.72	0.01	0.16	4.76	4.92	0.15	0.70	0.85	—	997	997	0.03	0.04	0.23	1,008

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2029	2.10	1.76	14.7	14.7	0.03	0.65	8.55	9.20	0.60	2.75	3.35	—	3,474	3,474	0.12	0.11	1.87	3,512
2030	3.67	3.09	24.0	30.1	0.06	0.97	24.0	25.0	0.89	4.39	5.28	—	7,158	7,158	0.24	0.37	5.52	7,252
2031	8.83	7.41	59.1	65.3	0.14	2.67	42.4	43.0	2.46	9.84	12.3	—	15,320	15,320	0.54	0.46	6.81	15,479
2032	7.44	6.23	50.6	61.9	0.13	2.10	39.1	41.2	1.93	4.07	6.01	—	14,551	14,551	0.52	0.41	5.37	14,691
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	2.83	2.38	19.4	21.4	0.04	0.81	16.1	16.9	0.75	3.52	4.26	—	4,864	4,864	0.18	0.14	0.06	4,910
2030	4.27	3.58	30.4	37.0	0.08	1.18	42.6	43.2	1.09	4.41	5.28	—	9,461	9,461	0.30	0.47	0.18	9,610
2031	5.92	4.95	39.8	46.8	0.10	1.71	70.2	71.6	1.58	9.03	10.6	—	10,922	10,922	0.39	0.36	0.13	11,039
2032	6.18	5.17	41.9	51.0	0.11	1.71	66.6	68.3	1.57	8.67	10.2	—	12,361	12,361	0.44	0.41	0.13	12,495
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.58	0.49	3.99	4.32	0.01	0.17	2.76	2.93	0.16	0.59	0.75	—	990	990	0.04	0.03	0.21	1,000
2030	2.12	1.78	14.4	17.5	0.04	0.57	15.6	16.1	0.52	2.00	2.52	—	4,465	4,465	0.14	0.21	1.40	4,533
2031	3.16	2.65	21.0	25.9	0.05	0.88	26.1	27.0	0.81	3.86	4.67	—	6,022	6,022	0.21	0.20	1.29	6,089
2032	1.92	1.61	13.1	15.9	0.03	0.54	10.7	11.3	0.50	1.20	1.70	—	3,763	3,763	0.13	0.11	0.61	3,800
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.11	0.09	0.73	0.79	< 0.005	0.03	0.50	0.53	0.03	0.11	0.14	—	164	164	0.01	< 0.005	0.03	166
2030	0.39	0.32	2.62	3.20	0.01	0.10	2.84	2.95	0.10	0.36	0.46	—	739	739	0.02	0.04	0.23	751
2031	0.58	0.48	3.82	4.72	0.01	0.16	4.76	4.92	0.15	0.70	0.85	—	997	997	0.03	0.03	0.21	1,008
2032	0.35	0.29	2.39	2.90	0.01	0.10	1.96	2.06	0.09	0.22	0.31	—	623	623	0.02	0.02	0.10	629

3. Construction Emissions Details

3.1. Shifted Spur: Demolition (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	0.53	0.53	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.9	28.9	< 0.005	< 0.005	0.06	30.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.78	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.54	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	93.7	93.7	< 0.005	< 0.005	0.28	95.1

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	1.53	646
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.73	4.73	< 0.005	< 0.005	0.01	4.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	< 0.005	0.04	35.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.63	5.63	< 0.005	< 0.005	0.01	5.85

3.3. Shifted Spur: Track Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.22	0.18	1.51	1.55	< 0.005	0.07	—	0.07	0.06	—	0.06	—	299	299	0.01	< 0.005	—	300
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.5	49.5	< 0.005	< 0.005	—	49.7
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.9	91.9	< 0.005	< 0.005	0.25	93.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.28	9.28	< 0.005	< 0.005	0.01	9.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.5. Aerial Guideway: Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	0.47	0.47	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	< 0.005	55.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.8	32.8	< 0.005	< 0.005	0.03	34.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.44	5.44	< 0.005	< 0.005	0.01	5.66

3.7. Mainline Track: Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	2.34	2.34	—	0.35	0.35	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Demolition	—	—	—	—	—	—	0.38	0.38	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.23	91.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.02	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.9. Access Track: Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	6.42	6.42	—	0.97	0.97	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.51	1.55	< 0.005	0.07	—	0.07	0.06	—	0.06	—	299	299	0.01	< 0.005	—	300
Demolition	—	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.5	49.5	< 0.005	< 0.005	—	49.7

Demolitio	—	—	—	—	—	—	0.13	0.13	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.04	0.84	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.42	156
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.02	15.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.11. Station Parking: Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	1.57	1.57	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.72	0.76	< 0.005	0.03	—	0.03	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	< 0.005	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.04	3.04	< 0.005	< 0.005	< 0.005	3.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.5	31.5	< 0.005	< 0.005	0.03	32.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.22	5.22	< 0.005	< 0.005	< 0.005	5.43

3.13. Shifted Spur: Initial Grading (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.9	28.9	< 0.005	< 0.005	0.06	30.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740

Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	29.0	29.0	< 0.005	< 0.005	< 0.005	30.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.28	2.34	2.29	< 0.005	0.11	—	0.11	0.10	—	0.10	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.76	4.76	< 0.005	< 0.005	< 0.005	4.95
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.82
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.4	62.4	< 0.005	< 0.005	0.19	63.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	1.53	646
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	55.8	55.8	< 0.005	< 0.005	< 0.005	56.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.46	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	0.04	645
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.46	9.46	< 0.005	< 0.005	0.01	9.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.11	106
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.6

3.15. Aerial Guideway: Retaining Wall Fill (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.23	91.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.02	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.17. Mainline Track: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.2	60.2	< 0.005	< 0.005	0.15	61.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	< 0.005	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	0.01	9.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.19. Access Track: Initial Grading (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740

Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.26	2.33	< 0.005	0.10	—	0.10	0.10	—	0.10	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.34	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	61.3	61.3	< 0.005	< 0.005	0.17	62.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	< 0.005	55.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.28	9.28	< 0.005	< 0.005	0.01	9.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.5	98.5	< 0.005	0.01	0.10	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.02	17.0

3.21. LMF: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.03	0.62	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.30	122
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.02	18.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.23. Station Parking: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.58	1.65	< 0.005	0.07	—	0.07	0.07	—	0.07	—	326	326	0.01	< 0.005	—	327
Dust From Material Movement	—	—	—	—	—	—	0.55	0.55	—	0.28	0.28	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.41	0.41	< 0.005	0.04	0.04	—	3.24	3.24	< 0.005	< 0.005	< 0.005	3.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.29	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.0	54.0	< 0.005	< 0.005	—	54.2
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.56
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	108	108	< 0.005	0.01	0.01	109
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	68.7	68.7	< 0.005	0.01	0.06	71.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.19	2.19	< 0.005	< 0.005	< 0.005	2.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	11.8

3.25. Station Parking: Initial Grading (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.83	1.53	12.0	12.6	0.03	0.55	—	0.55	0.51	—	0.51	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.54	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.16	0.16	0.00	0.02	0.02	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.4

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.03	0.03	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.88	4.88	< 0.005	< 0.005	0.01	4.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	24.8	24.8	< 0.005	< 0.005	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.11	4.11	< 0.005	< 0.005	< 0.005	4.28

3.27. Aerial Guideway: Aerial Structure Foundation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.38	2.13	< 0.005	0.05	—	0.05	0.05	—	0.05	—	401	401	0.02	< 0.005	—	403
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	2.28	2.28	< 0.005	0.23	0.23	—	18.5	18.5	< 0.005	< 0.005	0.02	19.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.25	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.5	66.5	< 0.005	< 0.005	—	66.7

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.42	0.42	< 0.005	0.04	0.04	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.19
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.08	1.68	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	0.01	0.01	0.85	311
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.03	1.75	0.39	0.01	0.03	0.44	0.47	0.03	0.12	0.15	—	1,459	1,459	0.01	0.23	2.73	1,529
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.03	1.87	0.40	0.01	0.03	0.44	0.47	0.03	0.12	0.15	—	1,460	1,460	0.01	0.23	0.07	1,528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.44	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	92.8	92.8	< 0.005	< 0.005	0.12	94.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.60	0.13	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	480	480	< 0.005	0.07	0.39	502
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.4	79.4	< 0.005	0.01	0.06	83.2

3.29. Shifted Spur: Bear Creek Bridge (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.59	4.33	6.47	0.01	0.16	—	0.16	0.15	—	0.15	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.14	0.08	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	58.0	58.0	< 0.005	0.01	< 0.005	60.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.71	1.06	< 0.005	0.03	—	0.03	0.02	—	0.02	—	201	201	0.01	< 0.005	—	201
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.14	1.14	< 0.005	0.11	0.11	—	9.52	9.52	< 0.005	< 0.005	0.01	9.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.42	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.7	83.7	< 0.005	< 0.005	0.01	84.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.7	64.7	< 0.005	0.01	< 0.005	67.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.84

3.31. Shifted Spur: Track Installation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.02	9.28	0.02	0.28	—	0.28	0.26	—	0.26	—	1,700	1,700	0.07	0.01	—	1,706
Onsite truck	0.01	0.01	0.20	0.09	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	176	176	< 0.005	0.02	0.01	183
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.15	1.53	< 0.005	0.05	—	0.05	0.04	—	0.04	—	280	280	0.01	< 0.005	—	280
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	4.11	4.11	< 0.005	0.41	0.41	—	29.0	29.0	< 0.005	< 0.005	0.03	30.2

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.21	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.3	46.3	< 0.005	< 0.005	—	46.4
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.75	0.75	< 0.005	0.07	0.07	—	4.80	4.80	< 0.005	< 0.005	< 0.005	4.99
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	137	137	< 0.005	0.01	0.01	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.50	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	372	372	< 0.005	0.06	0.02	389
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.2	23.2	< 0.005	< 0.005	0.03	23.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61.1	61.1	< 0.005	0.01	0.05	64.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.84	3.84	< 0.005	< 0.005	< 0.005	3.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6

3.33. Shifted Spur: At-Grade Crossing (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.8	18.0	0.03	0.69	—	0.69	0.64	—	0.64	—	3,327	3,327	0.13	0.03	—	3,339
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.8	18.0	0.03	0.69	—	0.69	0.64	—	0.64	—	3,327	3,327	0.13	0.03	—	3,339
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.73	1.97	< 0.005	0.08	—	0.08	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.32	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.03	0.67	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.34	124
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	110	110	< 0.005	0.01	0.01	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.02	12.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.05	2.05	< 0.005	< 0.005	< 0.005	2.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.35. Aerial Guideway: Aerial Structure Column (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.26	1.94	< 0.005	0.05	—	0.05	0.04	—	0.04	—	366	366	0.01	< 0.005	—	367
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	2.08	2.08	< 0.005	0.21	0.21	—	16.8	16.8	< 0.005	< 0.005	0.01	17.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.23	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.5	60.5	< 0.005	< 0.005	—	60.7
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	2.78	2.78	< 0.005	< 0.005	< 0.005	2.90
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.08	1.68	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	0.01	0.01	0.85	311
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.51	0.12	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	419	419	< 0.005	0.07	0.78	439

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.55	0.13	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	419	419	< 0.005	0.07	0.02	439
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	84.5	84.5	< 0.005	< 0.005	0.11	85.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.16	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	126	126	< 0.005	0.02	0.10	131
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	0.02	14.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.8	20.8	< 0.005	< 0.005	0.02	21.8

3.37. Aerial Guideway: Aerial Structure Column (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.8	35.8	< 0.005	< 0.005	—	36.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.93	5.93	< 0.005	< 0.005	—	5.95
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.10	1.18	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	269	269	0.01	0.01	0.02	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.54	0.13	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	409	409	< 0.005	0.07	0.02	429
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.14	8.14	< 0.005	< 0.005	0.01	8.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.01	12.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.35	1.35	< 0.005	< 0.005	< 0.005	1.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.08

3.39. Aerial Guideway: Aerial Structure Bent (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.11	1.77	< 0.005	0.04	—	0.04	0.04	—	0.04	—	335	335	0.01	< 0.005	—	336
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	1.90	1.90	< 0.005	0.19	0.19	—	14.9	14.9	< 0.005	< 0.005	0.01	15.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.20	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.4	55.4	< 0.005	< 0.005	—	55.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.35	0.35	< 0.005	0.03	0.03	—	2.46	2.46	< 0.005	< 0.005	< 0.005	2.56
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.36	0.09	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	289	289	< 0.005	0.05	0.50	303
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.39	0.09	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	289	289	< 0.005	0.05	0.01	303
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.04	38.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.03	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	79.2	79.2	< 0.005	0.01	0.06	83.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	0.01	6.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.8

3.41. Aerial Guideway: Aerial Structure Superstructure (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.56	2.47	< 0.005	0.06	—	0.06	0.05	—	0.05	—	468	468	0.02	< 0.005	—	470
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	2.66	2.66	< 0.005	0.27	0.27	—	20.8	20.8	< 0.005	< 0.005	0.02	21.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.28	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	< 0.005	< 0.005	—	77.8
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.49	0.49	< 0.005	0.05	0.05	—	3.44	3.44	< 0.005	< 0.005	< 0.005	3.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.92	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.45	183
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.22	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	169	169	< 0.005	0.03	0.29	178
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.06	0.71	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.01	164

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.23	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	170	170	< 0.005	0.03	0.01	178
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63.8	63.8	< 0.005	< 0.005	0.07	64.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.0	65.0	< 0.005	0.01	0.05	68.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3

3.43. Aerial Guideway: Retaining Wall Foundation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.69	1.06	< 0.005	0.03	—	0.03	0.02	—	0.02	—	201	201	0.01	< 0.005	—	201
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.14	1.14	< 0.005	0.11	0.11	—	9.23	9.23	< 0.005	< 0.005	0.01	9.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.9	91.9	< 0.005	< 0.005	0.25	93.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.45	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	367	367	< 0.005	0.06	0.68	384

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	82.2	82.2	< 0.005	< 0.005	0.01	83.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	367	367	< 0.005	0.06	0.02	384
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.3	60.3	< 0.005	0.01	0.05	63.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.30	2.30	< 0.005	< 0.005	< 0.005	2.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.98	9.98	< 0.005	< 0.005	0.01	10.5

3.45. Aerial Guideway: Retaining Wall (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	3.07	5.41	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.8	63.8	< 0.005	< 0.005	—	64.1
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.42	0.42	< 0.005	0.04	0.04	—	3.41	3.41	< 0.005	< 0.005	< 0.005	3.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.25	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	186	186	< 0.005	0.03	0.01	195
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.02	17.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.84	2.84	< 0.005	< 0.005	< 0.005	2.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.95

3.47. Aerial Guideway: Retaining Wall (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	2.94	5.40	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	2.94	5.40	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.62	1.14	< 0.005	0.02	—	0.02	0.02	—	0.02	—	222	222	0.01	< 0.005	—	223
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	1.47	1.47	< 0.005	0.15	0.15	—	11.5	11.5	< 0.005	< 0.005	0.01	11.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.8	36.8	< 0.005	< 0.005	—	37.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.27	0.27	< 0.005	0.03	0.03	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.98
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.54	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	301	301	0.01	0.01	0.75	305
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.23	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	181	181	< 0.005	0.03	0.31	190
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.10	1.18	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	269	269	0.01	0.01	0.02	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.25	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	181	181	< 0.005	0.03	0.01	190
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	58.6	58.6	< 0.005	< 0.005	0.07	59.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	38.3	38.3	< 0.005	0.01	0.03	40.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.70	9.70	< 0.005	< 0.005	0.01	9.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.65

3.49. Mainline Track: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	110	110	< 0.005	< 0.005	—	111
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.52	1.52	< 0.005	0.15	0.15	—	10.3	10.3	< 0.005	< 0.005	0.01	10.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.3	18.3	< 0.005	< 0.005	—	18.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28	0.28	< 0.005	0.03	0.03	—	1.70	1.70	< 0.005	< 0.005	< 0.005	1.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.01	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.02	23.0

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.64	3.64	< 0.005	< 0.005	< 0.005	3.81

3.51. Mainline Track: Track Installation (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.17	0.07	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.30	169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.18	0.08	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.01	169
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.79	2.56	< 0.005	0.07	—	0.07	0.06	—	0.06	—	481	481	0.02	< 0.005	—	483
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	0.00	6.60	6.60	0.00	0.66	0.66	—	43.0	43.0	< 0.005	0.01	0.03	44.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	79.6	79.6	< 0.005	< 0.005	—	79.9

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	1.21	1.21	0.00	0.12	0.12	—	7.11	7.11	< 0.005	< 0.005	0.01	7.41
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.03	0.71	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	147	147	< 0.005	< 0.005	0.33	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.45	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	353	353	< 0.005	0.06	0.56	370
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	354	354	< 0.005	0.06	0.01	370
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	0.04	36.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.12	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.4	93.4	< 0.005	0.01	0.06	97.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.92	5.92	< 0.005	< 0.005	0.01	6.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.01	16.2

3.53. Mainline Track: At-Grade Crossing (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	1.53	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.38	0.38	0.00	0.04	0.04	—	2.87	2.87	< 0.005	< 0.005	< 0.005	2.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.07	0.07	0.00	0.01	0.01	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	0.01	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	—	60.5	60.5	< 0.005	0.01	0.05	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.97	1.97	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.4

3.55. Access Track: Track Installation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	0.90	7.55	10.1	0.02	0.31	—	0.31	0.28	—	0.28	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	0.01	0.20	0.09	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	176	176	< 0.005	0.02	0.01	183
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.46	0.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	110	110	< 0.005	< 0.005	—	111
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	1.52	1.52	< 0.005	0.15	0.15	—	10.7	10.7	< 0.005	< 0.005	0.01	11.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.3	18.3	< 0.005	< 0.005	—	18.3

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28	0.28	< 0.005	0.03	0.03	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.84
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	137	137	< 0.005	0.01	0.01	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.50	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	372	372	< 0.005	0.06	0.02	389
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.56	8.56	< 0.005	< 0.005	0.01	8.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.5	22.5	< 0.005	< 0.005	0.02	23.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91

3.57. Access Track: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	0.01	0.18	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	169	169	< 0.005	0.02	0.34	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.92	2.66	< 0.005	0.08	—	0.08	0.07	—	0.07	—	484	484	0.02	< 0.005	—	486
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	6.65	6.65	< 0.005	0.66	0.66	—	45.1	45.1	< 0.005	0.01	0.04	46.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.2	80.2	< 0.005	< 0.005	—	80.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.21	1.21	< 0.005	0.12	0.12	—	7.47	7.47	< 0.005	< 0.005	0.01	7.76
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.46	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	362	362	< 0.005	0.06	0.62	380
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	0.04	37.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.4	96.4	< 0.005	0.02	0.07	101
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.11	6.11	< 0.005	< 0.005	0.01	6.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.01	16.7

3.59. Access Track: At-Grade Crossing (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	15.2	17.7	0.03	0.68	—	0.68	0.63	—	0.63	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	1.94	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.51
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.03	0.62	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.30	122
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.2	12.2	< 0.005	< 0.005	0.01	12.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	63.1	63.1	< 0.005	0.01	0.06	65.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	< 0.005	2.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.9

3.61. LMF: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.30	1.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	328	328	0.01	< 0.005	—	329
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	4.50	4.50	< 0.005	0.45	0.45	—	30.5	30.5	< 0.005	< 0.005	0.03	31.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.3	54.3	< 0.005	< 0.005	—	54.4
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.82	0.82	< 0.005	0.08	0.08	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.25
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.03	25.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.2	65.2	< 0.005	0.01	0.05	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	< 0.005	4.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3

3.63. LMF: Track Installation (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.18	0.08	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.01	169
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.3	71.3	< 0.005	< 0.005	—	71.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.98	0.98	0.00	0.10	0.10	—	6.37	6.37	< 0.005	< 0.005	0.01	6.63
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.18	0.18	0.00	0.02	0.02	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.10
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	354	354	< 0.005	0.06	0.01	370
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.30	5.30	< 0.005	< 0.005	0.01	5.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.40

3.65. Station Parking: Parking (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	3.83	4.49	0.01	0.17	—	0.17	0.15	—	0.15	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	0.00	0.95	0.95	0.00	0.09	0.09	—	7.17	7.17	< 0.005	< 0.005	< 0.005	7.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.70	0.82	< 0.005	0.03	—	0.03	0.03	—	0.03	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.17	0.17	0.00	0.02	0.02	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.24
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.03	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	—	151	151	< 0.005	0.02	0.13	157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.91	4.91	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.1

3.67. LMF: Parking (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.59	5.39	0.01	0.20	—	0.20	0.18	—	0.18	—	1,094	1,094	0.04	0.01	—	1,098
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	0.00	1.14	1.14	0.00	0.11	0.11	—	8.60	8.60	< 0.005	< 0.005	0.01	8.96
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.84	0.98	< 0.005	0.04	—	0.04	0.03	—	0.03	—	181	181	0.01	< 0.005	—	182
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.21	0.21	0.00	0.02	0.02	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.48
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.04	36.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	0.00	0.06	0.06	0.00	0.02	0.02	—	181	181	< 0.005	0.02	0.15	189
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.90	5.90	< 0.005	< 0.005	0.01	5.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.03	31.3

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Shifted Spur: Demolition	Demolition	7/1/2029	7/29/2029	5.00	20.0	Shifted Spur-101
Shifted Spur: Track Demolition	Demolition	5/1/2030	6/25/2030	5.00	40.0	Shifted Spur-601
Aerial Guideway: Demolition	Demolition	1/1/2030	1/28/2030	5.00	20.0	Aerial Guideway-102
Mainline Track: Demolition	Demolition	7/1/2031	9/22/2031	5.00	60.0	Mainline Track-103
Access Track: Demolition	Demolition	7/1/2030	8/23/2030	5.00	40.0	Access Track-104
Station Parking: Demolition	Demolition	10/1/2031	10/28/2031	5.00	20.0	Station Parking-105
Shifted Spur: Initial Grading	Site Preparation	8/1/2029	10/23/2029	5.00	60.0	Shifted Spur-201
Aerial Guideway: Retaining Wall Fill	Site Preparation	7/1/2031	9/22/2031	5.00	60.0	Aerial Guideway-701
Mainline Track: Initial Grading	Site Preparation	9/1/2031	11/21/2031	5.00	60.0	Mainline Track-202

Access Track: Initial Grading	Site Preparation	9/1/2030	11/22/2030	5.00	60.0	Access Track-203
LMF: Initial Grading	Site Preparation	7/1/2031	9/22/2031	5.00	60.0	LMF-204
Station Parking: Initial Grading	Site Preparation	11/1/2031	1/23/2032	5.00	60.0	Station Parking-205
Aerial Guideway: Aerial Structure Foundation	Grading	2/1/2030	7/18/2030	5.00	120	Aerial Guideway-302
Shifted Spur: Bear Creek Bridge	Building Construction	10/1/2029	12/21/2029	5.00	60.0	Shifted Spur-301
Shifted Spur: Track Installation	Building Construction	1/1/2030	3/25/2030	5.00	60.0	Shifted Spur-401
Shifted Spur: At-Grade Crossing	Building Construction	3/1/2030	4/25/2030	5.00	40.0	Shifted Spur-501
Aerial Guideway: Aerial Structure Column	Building Construction	8/1/2030	1/15/2031	5.00	120	Aerial Guideway-303
Aerial Guideway: Aerial Structure Bent	Building Construction	2/1/2031	6/20/2031	5.00	100	Aerial Guideway-304
Aerial Guideway: Aerial Structure Superstructure	Building Construction	6/1/2031	12/12/2031	5.00	140	Aerial Guideway-305
Aerial Guideway: Retaining Wall Foundation	Building Construction	9/1/2030	11/22/2030	5.00	60.0	Aerial Guideway-306
Aerial Guideway: Retaining Wall	Building Construction	12/1/2030	4/18/2031	5.00	100	Aerial Guideway-307
Mainline Track: Track Installation	Building Construction	12/1/2031	5/14/2032	5.00	120	Mainline Track-402
Mainline Track: At-Grade Crossing	Building Construction	5/1/2032	6/25/2032	5.00	40.0	Mainline Track-502
Access Track: Track Installation	Building Construction	12/1/2030	5/16/2031	5.00	120	Access Track-403
Access Track: At-Grade Crossing	Building Construction	5/1/2031	6/25/2031	5.00	40.0	Access Track-503
LMF: Track Installation	Building Construction	10/1/2031	1/20/2032	5.00	80.0	LMF-404
Station Parking: Parking	Building Construction	2/1/2032	6/18/2032	5.00	100	Station Parking-602

LMF: Parking	Paving	1/1/2032	6/16/2032	5.00	120	LMF-601

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
Shifted Spur: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: Track Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Track Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Track Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Track Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Aerial Guideway: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Aerial Guideway: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Aerial Guideway: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Aerial Guideway: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40

Mainline Track: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Access Track: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Aerial Guideway: Retaining Wall Fill	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Aerial Guideway: Retaining Wall Fill	Graders	Diesel	Average	1.00	4.00	148	0.41

Aerial Guideway: Retaining Wall Fill	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Aerial Guideway: Retaining Wall Fill	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Mainline Track: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Access Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
LMF: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
LMF: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
LMF: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
LMF: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43

Aerial Guideway: Aerial Structure Foundation	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Foundation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Foundation	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Foundation	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Foundation	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Shifted Spur: Bear Creek Bridge	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Shifted Spur: Bear Creek Bridge	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Shifted Spur: Bear Creek Bridge	Cranes	Diesel	Average	1.00	3.00	367	0.29
Shifted Spur: Bear Creek Bridge	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Shifted Spur: Bear Creek Bridge	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Shifted Spur: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Shifted Spur: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Shifted Spur: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Shifted Spur: Track Installation	Other Construction Equipment	Diesel	Average	3.00	2.00	82.0	0.42
Shifted Spur: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
Shifted Spur: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Shifted Spur: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41

Shifted Spur: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Aerial Guideway: Aerial Structure Column	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Column	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Column	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Column	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Column	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Bent	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Bent	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Bent	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Bent	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Bent	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Superstructure	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Superstructure	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74

Aerial Guideway: Aerial Structure Superstructure	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Superstructure	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Superstructure	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Retaining Wall Foundation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Retaining Wall Foundation	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Retaining Wall Foundation	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Retaining Wall Foundation	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Retaining Wall Foundation	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Retaining Wall	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Retaining Wall	Generator Sets	Diesel	Average	1.00	7.00	14.0	0.74
Aerial Guideway: Retaining Wall	Welders	Diesel	Average	1.00	3.00	46.0	0.45
Aerial Guideway: Retaining Wall	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Retaining Wall	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Mainline Track: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29

Mainline Track: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Mainline Track: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Mainline Track: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
Mainline Track: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
Mainline Track: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Mainline Track: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Mainline Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Access Track: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Access Track: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Access Track: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Access Track: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
Access Track: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
Access Track: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Access Track: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41

Access Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
LMF: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
LMF: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
LMF: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
LMF: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
LMF: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
LMF: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Station Parking: Parking	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Parking	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Parking	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Parking	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Parking	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
LMF: Parking	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
LMF: Parking	Graders	Diesel	Average	1.00	4.00	148	0.41
LMF: Parking	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
LMF: Parking	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
LMF: Parking	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Shifted Spur: Demolition	—	—	—	—
Shifted Spur: Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Demolition	Hauling	8.00	32.0	MHDT
Shifted Spur: Demolition	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Initial Grading	—	—	—	—
Shifted Spur: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Shifted Spur: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Initial Grading	Hauling	8.00	32.0	MHDT
Shifted Spur: Initial Grading	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Bear Creek Bridge	—	—	—	—
Shifted Spur: Bear Creek Bridge	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Bear Creek Bridge	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Bear Creek Bridge	Hauling	2.00	10.0	HHDT
Shifted Spur: Bear Creek Bridge	Onsite truck	20.0	1.00	MHDT
Shifted Spur: Track Installation	—	—	—	—
Shifted Spur: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Track Installation	Hauling	8.00	15.0	HHDT
Shifted Spur: Track Installation	Onsite truck	18.0	4.00	MHDT
Shifted Spur: At-Grade Crossing	—	—	—	—
Shifted Spur: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Shifted Spur: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Shifted Spur: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Track Demolition	—	—	—	—

Shifted Spur: Track Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Track Demolition	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Track Demolition	Hauling	8.00	32.0	MHDT
Shifted Spur: Track Demolition	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Demolition	—	—	—	—
Aerial Guideway: Demolition	Worker	8.00	10.9	LDA,LDT1,LDT2
Aerial Guideway: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Demolition	Hauling	8.00	32.0	MHDT
Aerial Guideway: Demolition	Onsite truck	10.0	1.00	MHDT
Mainline Track: Demolition	—	—	—	—
Mainline Track: Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Mainline Track: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Demolition	Hauling	8.00	32.0	MHDT
Mainline Track: Demolition	Onsite truck	10.0	1.00	MHDT
Access Track: Demolition	—	—	—	—
Access Track: Demolition	Worker	20.0	10.9	LDA,LDT1,LDT2
Access Track: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Demolition	Hauling	8.00	32.0	MHDT
Access Track: Demolition	Onsite truck	10.0	1.00	MHDT
Station Parking: Demolition	—	—	—	—
Station Parking: Demolition	Worker	8.00	10.9	LDA,LDT1,LDT2
Station Parking: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Demolition	Hauling	8.00	32.0	MHDT
Station Parking: Demolition	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Retaining Wall Fill	—	—	—	—
Aerial Guideway: Retaining Wall Fill	Worker	12.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Retaining Wall Fill	Vendor	0.00	8.27	HHDT,MHDT

Aerial Guideway: Retaining Wall Fill	Hauling	8.00	32.0	MHDT
Aerial Guideway: Retaining Wall Fill	Onsite truck	10.0	1.00	MHDT
Mainline Track: Initial Grading	—	—	—	—
Mainline Track: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Mainline Track: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Initial Grading	Hauling	8.00	32.0	MHDT
Mainline Track: Initial Grading	Onsite truck	10.0	1.00	MHDT
Access Track: Initial Grading	—	—	—	—
Access Track: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Access Track: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Initial Grading	Hauling	8.00	32.0	MHDT
Access Track: Initial Grading	Onsite truck	10.0	1.00	MHDT
LMF: Initial Grading	—	—	—	—
LMF: Initial Grading	Worker	16.0	10.9	LDA,LDT1,LDT2
LMF: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
LMF: Initial Grading	Hauling	8.00	32.0	MHDT
LMF: Initial Grading	Onsite truck	10.0	1.00	MHDT
Station Parking: Initial Grading	—	—	—	—
Station Parking: Initial Grading	Worker	16.0	10.9	LDA,LDT1,LDT2
Station Parking: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Initial Grading	Hauling	8.00	32.0	MHDT
Station Parking: Initial Grading	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Aerial Structure Foundation	—	—	—	—
Aerial Guideway: Aerial Structure Foundation	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Foundation	Vendor	0.00	8.27	HHDT,MHDT

Aerial Guideway: Aerial Structure Foundation	Hauling	25.0	19.0	HHDT
Aerial Guideway: Aerial Structure Foundation	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Column	—	—	—	—
Aerial Guideway: Aerial Structure Column	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Column	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Column	Hauling	8.00	17.0	HHDT
Aerial Guideway: Aerial Structure Column	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Bent	—	—	—	—
Aerial Guideway: Aerial Structure Bent	Worker	20.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Bent	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Bent	Hauling	6.00	16.0	HHDT
Aerial Guideway: Aerial Structure Bent	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Superstructure	—	—	—	—
Aerial Guideway: Aerial Structure Superstructure	Worker	24.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Superstructure	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Superstructure	Hauling	4.00	14.0	HHDT
Aerial Guideway: Aerial Structure Superstructure	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Retaining Wall Foundation	—	—	—	—
Aerial Guideway: Retaining Wall Foundation	Worker	12.0	10.9	LDA,LDT1,LDT2

Aerial Guideway: Retaining Wall Foundation	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Retaining Wall Foundation	Hauling	7.00	17.0	HHDT
Aerial Guideway: Retaining Wall Foundation	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Retaining Wall	—	—	—	—
Aerial Guideway: Retaining Wall	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Retaining Wall	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Retaining Wall	Hauling	4.00	15.0	HHDT
Aerial Guideway: Retaining Wall	Onsite truck	20.0	1.00	MHDT
Mainline Track: Track Installation	—	—	—	—
Mainline Track: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
Mainline Track: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Track Installation	Hauling	8.00	15.0	HHDT
Mainline Track: Track Installation	Onsite truck	18.0	4.00	MHDT
Mainline Track: At-Grade Crossing	—	—	—	—
Mainline Track: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Mainline Track: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Mainline Track: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
Access Track: Track Installation	—	—	—	—
Access Track: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
Access Track: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Track Installation	Hauling	8.00	15.0	HHDT
Access Track: Track Installation	Onsite truck	18.0	4.00	MHDT
Access Track: At-Grade Crossing	—	—	—	—
Access Track: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Access Track: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT

Access Track: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Access Track: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
LMF: Track Installation	—	—	—	—
LMF: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
LMF: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
LMF: Track Installation	Hauling	8.00	15.0	HHDT
LMF: Track Installation	Onsite truck	18.0	4.00	MHDT
Station Parking: Parking	—	—	—	—
Station Parking: Parking	Worker	16.0	10.9	LDA,LDT1,LDT2
Station Parking: Parking	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Parking	Hauling	8.00	32.0	MHDT
Station Parking: Parking	Onsite truck	10.0	1.00	MHDT
LMF: Parking	—	—	—	—
LMF: Parking	Worker	16.0	10.9	LDA,LDT1,LDT2
LMF: Parking	Vendor	0.00	8.27	HHDT,MHDT
LMF: Parking	Hauling	8.00	32.0	MHDT
LMF: Parking	Onsite truck	10.0	1.00	MHDT

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%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Shifted Spur: At-Grade Crossing	0.00	0.00	0.00	0.00	0.00

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)
Shifted Spur: Demolition	0.00	0.00	0.00	16,500	—
Aerial Guideway: Demolition	0.00	0.00	0.00	14,500	—
Mainline Track: Demolition	0.00	0.00	0.00	218,345	—
Access Track: Demolition	0.00	0.00	0.00	400,000	—
Station Parking: Demolition	0.00	0.00	0.00	49,000	—
Shifted Spur: Initial Grading	10,222	0.00	2.00	0.00	—
Aerial Guideway: Retaining Wall Fill	7,674	0.00	0.00	0.00	—
Mainline Track: Initial Grading	6,444	0.00	1.00	0.00	—
Access Track: Initial Grading	10,889	0.00	2.00	0.00	—
LMF: Initial Grading	14,925	0.00	4.00	0.00	—
Station Parking: Initial Grading	1,821	0.00	0.00	0.00	—
Aerial Guideway: Aerial Structure Foundation	13,906	0.00	0.00	0.00	—
Aerial Guideway: Retaining Wall Foundation	1,356	0.00	0.00	0.00	—
LMF: Parking	0.00	0.00	0.00	0.00	3.60

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
User Defined Industrial	3.60	0%

8. User Changes to Default Data

Screen	Justification
Land Use	Generic input - 9 acres = total area disturbed for modeling purposes
Construction: Construction Phases	Per project engineers
Construction: Off-Road Equipment	Per project engineers
Construction: Dust From Material Movement	Per project engineers
Construction: Demolition	Per project engineers
Construction: Trips and VMT	Per project engineers. Includes precast haul trips.
Construction: Paving	Per engineers

MITC Construction H1 (with Solar Field) Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC Construction H1 (with Solar Field)
Construction Start Date	7/1/2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31176174388196, -120.50902274515714
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
User Defined Industrial	1.00	User Defined Unit	9.00	0.00	0.00	0.00	—	—

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.74	8.19	63.2	77.0	0.15	2.81	44.7	47.5	2.59	10.4	13.0	—	17,299	17,299	0.61	0.51	8.11	17,474
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.42	5.38	42.6	52.8	0.11	1.77	73.5	74.9	1.63	9.58	11.2	—	12,752	12,752	0.45	0.47	0.18	12,891
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.47	2.91	22.4	28.9	0.06	0.94	28.1	29.0	0.86	4.14	5.01	—	6,589	6,589	0.23	0.22	1.50	6,660
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.63	0.53	4.09	5.28	0.01	0.17	5.12	5.29	0.16	0.76	0.91	—	1,091	1,091	0.04	0.04	0.25	1,103

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	2.10	1.76	14.7	14.7	0.03	0.65	8.55	9.20	0.60	2.75	3.35	—	3,474	3,474	0.12	0.11	1.87	3,512
2030	3.67	3.09	24.0	30.1	0.06	0.97	24.0	25.0	0.89	4.39	5.28	—	7,158	7,158	0.24	0.37	5.52	7,252
2031	9.74	8.19	63.2	77.0	0.15	2.81	44.7	47.5	2.59	10.4	13.0	—	17,299	17,299	0.61	0.51	8.11	17,474

2032	7.44	6.23	50.6	61.9	0.13	2.10	39.1	41.2	1.93	4.07	6.01	—	14,551	14,551	0.52	0.41	5.37	14,691
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	2.83	2.38	19.4	21.4	0.04	0.81	16.1	16.9	0.75	3.52	4.26	—	4,864	4,864	0.18	0.14	0.06	4,910
2030	4.27	3.58	30.4	37.0	0.08	1.18	42.6	43.2	1.09	4.41	5.28	—	9,461	9,461	0.30	0.47	0.18	9,610
2031	6.42	5.38	41.5	52.5	0.11	1.77	73.5	74.9	1.63	9.58	11.2	—	11,970	11,970	0.43	0.39	0.16	12,097
2032	6.39	5.35	42.6	52.8	0.11	1.72	69.9	71.6	1.59	9.04	10.6	—	12,752	12,752	0.45	0.43	0.15	12,891
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.58	0.49	3.99	4.32	0.01	0.17	2.76	2.93	0.16	0.59	0.75	—	990	990	0.04	0.03	0.21	1,000
2030	2.12	1.78	14.4	17.5	0.04	0.57	15.6	16.1	0.52	2.00	2.52	—	4,465	4,465	0.14	0.21	1.40	4,533
2031	3.47	2.91	22.4	28.9	0.06	0.94	28.1	29.0	0.86	4.14	5.01	—	6,589	6,589	0.23	0.22	1.50	6,660
2032	1.95	1.64	13.2	16.2	0.03	0.54	11.2	11.7	0.50	1.25	1.75	—	3,824	3,824	0.14	0.11	0.65	3,862
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2029	0.11	0.09	0.73	0.79	< 0.005	0.03	0.50	0.53	0.03	0.11	0.14	—	164	164	0.01	< 0.005	0.03	166
2030	0.39	0.32	2.62	3.20	0.01	0.10	2.84	2.95	0.10	0.36	0.46	—	739	739	0.02	0.04	0.23	751
2031	0.63	0.53	4.09	5.28	0.01	0.17	5.12	5.29	0.16	0.76	0.91	—	1,091	1,091	0.04	0.04	0.25	1,103
2032	0.36	0.30	2.41	2.95	0.01	0.10	2.04	2.14	0.09	0.23	0.32	—	633	633	0.02	0.02	0.11	639

3. Construction Emissions Details

3.1. Shifted Spur: Demolition (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	0.53	0.53	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.9	28.9	< 0.005	< 0.005	0.06	30.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.78	0.76	< 0.005	0.04	—	0.04	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.65
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.54	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	93.7	93.7	< 0.005	< 0.005	0.28	95.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	1.53	646

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.73	4.73	< 0.005	< 0.005	0.01	4.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.0	34.0	< 0.005	< 0.005	0.04	35.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.78	0.78	< 0.005	< 0.005	< 0.005	0.79
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.63	5.63	< 0.005	< 0.005	0.01	5.85

3.3. Shifted Spur: Track Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.51	1.55	< 0.005	0.07	—	0.07	0.06	—	0.06	—	299	299	0.01	< 0.005	—	300

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.5	49.5	< 0.005	< 0.005	—	49.7
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.9	91.9	< 0.005	< 0.005	0.25	93.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.28	9.28	< 0.005	< 0.005	0.01	9.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.5. Aerial Guideway: Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	0.47	0.47	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.75	0.78	< 0.005	0.03	—	0.03	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.14	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	< 0.005	55.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.09	3.09	< 0.005	< 0.005	< 0.005	3.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	32.8	32.8	< 0.005	< 0.005	0.03	34.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.44	5.44	< 0.005	< 0.005	0.01	5.66

3.7. Mainline Track: Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	2.34	2.34	—	0.35	0.35	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Demolition	—	—	—	—	—	—	0.38	0.38	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Demolition	—	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.23	91.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.02	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.9. Access Track: Demolition (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	6.42	6.42	—	0.97	0.97	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.18	1.51	1.55	< 0.005	0.07	—	0.07	0.06	—	0.06	—	299	299	0.01	< 0.005	—	300
Demolition	—	—	—	—	—	—	0.70	0.70	—	0.11	0.11	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49.5	49.5	< 0.005	< 0.005	—	49.7

Demolitio	—	—	—	—	—	—	0.13	0.13	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.04	0.84	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	153	153	< 0.005	0.01	0.42	156
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.02	15.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.56	2.56	< 0.005	< 0.005	< 0.005	2.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.11. Station Parking: Demolition (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Demolition	—	—	—	—	—	—	1.57	1.57	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.72	0.76	< 0.005	0.03	—	0.03	0.03	—	0.03	—	150	150	0.01	< 0.005	—	150
Demolition	—	—	—	—	—	—	0.09	0.09	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	0.19	< 0.005	0.02	0.02	—	1.49	1.49	< 0.005	< 0.005	< 0.005	1.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.8	24.8	< 0.005	< 0.005	—	24.9
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	< 0.005	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.04	3.04	< 0.005	< 0.005	< 0.005	3.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	31.5	31.5	< 0.005	< 0.005	0.03	32.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.51
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	5.22	5.22	< 0.005	< 0.005	< 0.005	5.43

3.13. Shifted Spur: Initial Grading (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.9	28.9	< 0.005	< 0.005	0.06	30.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	1.69	14.2	13.9	0.03	0.64	—	0.64	0.59	—	0.59	—	2,731	2,731	0.11	0.02	—	2,740

Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	29.0	29.0	< 0.005	< 0.005	< 0.005	30.1
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.28	2.34	2.29	< 0.005	0.11	—	0.11	0.10	—	0.10	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.76	4.76	< 0.005	< 0.005	< 0.005	4.95
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.43	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.82
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.36	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.4	62.4	< 0.005	< 0.005	0.19	63.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.43	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	1.53	646
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	55.8	55.8	< 0.005	< 0.005	< 0.005	56.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.46	0.15	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	621	621	0.01	0.08	0.04	645
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.46	9.46	< 0.005	< 0.005	0.01	9.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.11	106
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.9	16.9	< 0.005	< 0.005	0.02	17.6

3.15. Aerial Guideway: Retaining Wall Fill (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.02	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.23	91.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.7	13.7	< 0.005	< 0.005	0.02	13.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.26	2.26	< 0.005	< 0.005	< 0.005	2.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.17. Mainline Track: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.31	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	60.2	60.2	< 0.005	< 0.005	0.15	61.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	< 0.005	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.11	9.11	< 0.005	< 0.005	0.01	9.25
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.51	1.51	< 0.005	< 0.005	< 0.005	1.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.19. Access Track: Initial Grading (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.98	1.66	13.8	14.1	0.03	0.63	—	0.63	0.58	—	0.58	—	2,731	2,731	0.11	0.02	—	2,740

Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.26	2.33	< 0.005	0.10	—	0.10	0.10	—	0.10	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.62	4.62	< 0.005	< 0.005	< 0.005	4.81
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.76	0.76	< 0.005	< 0.005	< 0.005	0.80
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.34	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	61.3	61.3	< 0.005	< 0.005	0.17	62.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.02	0.25	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	54.8	54.8	< 0.005	< 0.005	< 0.005	55.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.28	9.28	< 0.005	< 0.005	0.01	9.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	98.5	98.5	< 0.005	0.01	0.10	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.56
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.02	17.0

3.21. LMF: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.17	2.27	< 0.005	0.10	—	0.10	0.09	—	0.09	—	449	449	0.02	< 0.005	—	450
Dust From Material Movement	—	—	—	—	—	—	0.75	0.75	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.57	0.57	< 0.005	0.06	0.06	—	4.46	4.46	< 0.005	< 0.005	< 0.005	4.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.40	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	74.3	74.3	< 0.005	< 0.005	—	74.6
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	—	0.74	0.74	< 0.005	< 0.005	< 0.005	0.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.03	0.62	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.30	122
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.02	18.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94.6	94.6	< 0.005	0.01	0.09	98.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.7	15.7	< 0.005	< 0.005	0.01	16.3

3.23. Station Parking: Initial Grading (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.94	1.63	13.2	13.8	0.03	0.62	—	0.62	0.57	—	0.57	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.2	27.2	< 0.005	< 0.005	< 0.005	28.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.58	1.65	< 0.005	0.07	—	0.07	0.07	—	0.07	—	326	326	0.01	< 0.005	—	327
Dust From Material Movement	—	—	—	—	—	—	0.55	0.55	—	0.28	0.28	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.41	0.41	< 0.005	0.04	0.04	—	3.24	3.24	< 0.005	< 0.005	< 0.005	3.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.29	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.0	54.0	< 0.005	< 0.005	—	54.2
Dust From Material Movement	—	—	—	—	—	—	0.10	0.10	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.56
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.47	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	108	108	< 0.005	0.01	0.01	109
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.38	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	0.03	598
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.2	13.2	< 0.005	< 0.005	0.02	13.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	68.7	68.7	< 0.005	0.01	0.06	71.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.19	2.19	< 0.005	< 0.005	< 0.005	2.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.01	11.8

3.25. Station Parking: Initial Grading (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.83	1.53	12.0	12.6	0.03	0.55	—	0.55	0.51	—	0.51	—	2,731	2,731	0.11	0.02	—	2,740
Dust From Material Movement	—	—	—	—	—	—	4.58	4.58	—	2.31	2.31	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.54	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	123	123	< 0.005	< 0.005	—	123
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.16	0.16	0.00	0.02	0.02	—	1.18	1.18	< 0.005	< 0.005	< 0.005	1.23
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.4	20.4	< 0.005	< 0.005	—	20.4

Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.03	0.03	0.00	< 0.005	< 0.005	—	0.19	0.19	< 0.005	< 0.005	< 0.005	0.20
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.88	4.88	< 0.005	< 0.005	0.01	4.95
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	24.8	24.8	< 0.005	< 0.005	0.02	25.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.82
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.11	4.11	< 0.005	< 0.005	< 0.005	4.28

3.27. Solar-Site (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66	0.55	4.35	5.20	0.01	0.21	—	0.21	0.19	—	0.19	—	973	973	0.04	0.01	—	977
Dust From Material Movement	—	—	—	—	—	—	1.38	1.38	—	0.67	0.67	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.37	0.37	< 0.005	0.04	0.04	—	4.56	4.56	< 0.005	< 0.005	0.01	4.79
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.52	0.63	< 0.005	0.03	—	0.03	0.02	—	0.02	—	117	117	< 0.005	< 0.005	—	118
Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.55	0.55	< 0.005	< 0.005	< 0.005	0.58
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.4	19.4	< 0.005	< 0.005	—	19.5
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.10
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	0.02	17.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	< 0.005	2.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.29. Aerial Guideway: Aerial Structure Foundation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225

Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.38	2.13	< 0.005	0.05	—	0.05	0.05	—	0.05	—	401	401	0.02	< 0.005	—	403
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	2.28	2.28	< 0.005	0.23	0.23	—	18.5	18.5	< 0.005	< 0.005	0.02	19.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.25	0.39	< 0.005	0.01	—	0.01	0.01	—	0.01	—	66.5	66.5	< 0.005	< 0.005	—	66.7
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.42	0.42	< 0.005	0.04	0.04	—	3.06	3.06	< 0.005	< 0.005	< 0.005	3.19

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.08	1.68	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	0.01	0.01	0.85	311
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.03	1.75	0.39	0.01	0.03	0.44	0.47	0.03	0.12	0.15	—	1,459	1,459	0.01	0.23	2.73	1,529
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.04	0.03	1.87	0.40	0.01	0.03	0.44	0.47	0.03	0.12	0.15	—	1,460	1,460	0.01	0.23	0.07	1,528
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.44	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	92.8	92.8	< 0.005	< 0.005	0.12	94.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.60	0.13	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	480	480	< 0.005	0.07	0.39	502
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.02	15.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	79.4	79.4	< 0.005	0.01	0.06	83.2

3.31. Shifted Spur: Bear Creek Bridge (2029) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	0.59	4.33	6.47	0.01	0.16	—	0.16	0.15	—	0.15	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.14	0.08	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	58.0	58.0	< 0.005	0.01	< 0.005	60.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.71	1.06	< 0.005	0.03	—	0.03	0.02	—	0.02	—	201	201	0.01	< 0.005	—	201
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.14	1.14	< 0.005	0.11	0.11	—	9.52	9.52	< 0.005	< 0.005	0.01	9.91
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.64
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.42	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	83.7	83.7	< 0.005	< 0.005	0.01	84.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	64.7	64.7	< 0.005	0.01	< 0.005	67.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	11.1

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.76	1.76	< 0.005	< 0.005	< 0.005	1.84

3.33. Shifted Spur: Track Installation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.85	7.02	9.28	0.02	0.28	—	0.28	0.26	—	0.26	—	1,700	1,700	0.07	0.01	—	1,706
Onsite truck	0.01	0.01	0.20	0.09	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	176	176	< 0.005	0.02	0.01	183
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.15	1.53	< 0.005	0.05	—	0.05	0.04	—	0.04	—	280	280	0.01	< 0.005	—	280
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	4.11	4.11	< 0.005	0.41	0.41	—	29.0	29.0	< 0.005	< 0.005	0.03	30.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.21	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	46.3	46.3	< 0.005	< 0.005	—	46.4
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.75	0.75	< 0.005	0.07	0.07	—	4.80	4.80	< 0.005	< 0.005	< 0.005	4.99
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	137	137	< 0.005	0.01	0.01	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.50	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	372	372	< 0.005	0.06	0.02	389
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.2	23.2	< 0.005	< 0.005	0.03	23.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61.1	61.1	< 0.005	0.01	0.05	64.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.84	3.84	< 0.005	< 0.005	< 0.005	3.90
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.1	10.1	< 0.005	< 0.005	0.01	10.6

3.35. Shifted Spur: At-Grade Crossing (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.8	18.0	0.03	0.69	—	0.69	0.64	—	0.64	—	3,327	3,327	0.13	0.03	—	3,339
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	0.05	29.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.84	15.8	18.0	0.03	0.69	—	0.69	0.64	—	0.64	—	3,327	3,327	0.13	0.03	—	3,339
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.07	0.04	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	28.1	28.1	< 0.005	< 0.005	< 0.005	29.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.73	1.97	< 0.005	0.08	—	0.08	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	3.08	3.08	< 0.005	< 0.005	< 0.005	3.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.32	0.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Architectural Coatings	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.51	0.51	< 0.005	< 0.005	< 0.005	0.53
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.03	0.67	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	0.34	124

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.39	0.14	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	1.36	625
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	110	110	< 0.005	0.01	0.01	111
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.42	0.13	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	599	599	0.01	0.08	0.04	623
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.4	12.4	< 0.005	< 0.005	0.02	12.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.7	65.7	< 0.005	0.01	0.06	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.05	2.05	< 0.005	< 0.005	< 0.005	2.08
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	0.01	11.3

3.37. Aerial Guideway: Aerial Structure Column (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.17	1.26	1.94	< 0.005	0.05	—	0.05	0.04	—	0.04	—	366	366	0.01	< 0.005	—	367
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	2.08	2.08	< 0.005	0.21	0.21	—	16.8	16.8	< 0.005	< 0.005	0.01	17.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.23	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.5	60.5	< 0.005	< 0.005	—	60.7
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	2.78	2.78	< 0.005	< 0.005	< 0.005	2.90
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.08	1.68	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	306	306	0.01	0.01	0.85	311
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.51	0.12	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	419	419	< 0.005	0.07	0.78	439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.55	0.13	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	419	419	< 0.005	0.07	0.02	439
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.04	0.04	0.03	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	84.5	84.5	< 0.005	< 0.005	0.11	85.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.16	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	126	126	< 0.005	0.02	0.10	131
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.0	14.0	< 0.005	< 0.005	0.02	14.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.8	20.8	< 0.005	< 0.005	0.02	21.8

3.39. Aerial Guideway: Aerial Structure Column (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.12	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	35.8	35.8	< 0.005	< 0.005	—	36.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	1.59	1.59	< 0.005	< 0.005	< 0.005	1.66
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.93	5.93	< 0.005	< 0.005	—	5.95

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.10	1.18	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	269	269	0.01	0.01	0.02	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.54	0.13	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04	—	409	409	< 0.005	0.07	0.02	429
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.14	8.14	< 0.005	< 0.005	0.01	8.26
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12.0	12.0	< 0.005	< 0.005	0.01	12.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.35	1.35	< 0.005	< 0.005	< 0.005	1.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.08

3.41. Aerial Guideway: Aerial Structure Bent (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.11	1.77	< 0.005	0.04	—	0.04	0.04	—	0.04	—	335	335	0.01	< 0.005	—	336
Onsite truck	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	1.90	1.90	< 0.005	0.19	0.19	—	14.9	14.9	< 0.005	< 0.005	0.01	15.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.20	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	55.4	55.4	< 0.005	< 0.005	—	55.6
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.35	0.35	< 0.005	0.03	0.03	—	2.46	2.46	< 0.005	< 0.005	< 0.005	2.56
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.36	0.09	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	289	289	< 0.005	0.05	0.50	303
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.39	0.09	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	289	289	< 0.005	0.05	0.01	303
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.17	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	38.0	38.0	< 0.005	< 0.005	0.04	38.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.03	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	79.2	79.2	< 0.005	0.01	0.06	83.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	0.01	6.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.1	13.1	< 0.005	< 0.005	0.01	13.8

3.43. Aerial Guideway: Aerial Structure Superstructure (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	4.06	6.45	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.56	2.47	< 0.005	0.06	—	0.06	0.05	—	0.05	—	468	468	0.02	< 0.005	—	470
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	2.66	2.66	< 0.005	0.27	0.27	—	20.8	20.8	< 0.005	< 0.005	0.02	21.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.28	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	77.5	77.5	< 0.005	< 0.005	—	77.8
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.49	0.49	< 0.005	0.05	0.05	—	3.44	3.44	< 0.005	< 0.005	< 0.005	3.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.92	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	180	180	< 0.005	0.01	0.45	183
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.22	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	169	169	< 0.005	0.03	0.29	178
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	0.06	0.71	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.01	164
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.23	0.06	< 0.005	< 0.005	0.05	0.06	< 0.005	0.01	0.02	—	170	170	< 0.005	0.03	0.01	178
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63.8	63.8	< 0.005	< 0.005	0.07	64.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.0	65.0	< 0.005	0.01	0.05	68.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.01	10.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3

3.45. Aerial Guideway: Retaining Wall Foundation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.1	56.1	< 0.005	0.01	0.11	58.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69	0.58	4.20	6.47	0.01	0.15	—	0.15	0.14	—	0.14	—	1,221	1,221	0.05	0.01	—	1,225
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.69	1.06	< 0.005	0.03	—	0.03	0.02	—	0.02	—	201	201	0.01	< 0.005	—	201
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	1.14	1.14	< 0.005	0.11	0.11	—	9.23	9.23	< 0.005	< 0.005	0.01	9.62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	33.2	33.2	< 0.005	< 0.005	—	33.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	—	1.53	1.53	< 0.005	< 0.005	< 0.005	1.59

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.02	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	91.9	91.9	< 0.005	< 0.005	0.25	93.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.45	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	367	367	< 0.005	0.06	0.68	384
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	82.2	82.2	< 0.005	< 0.005	0.01	83.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	367	367	< 0.005	0.06	0.02	384
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.9	13.9	< 0.005	< 0.005	0.02	14.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	60.3	60.3	< 0.005	0.01	0.05	63.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.30	2.30	< 0.005	< 0.005	< 0.005	2.34
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.98	9.98	< 0.005	< 0.005	0.01	10.5

3.47. Aerial Guideway: Retaining Wall (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	3.07	5.41	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	56.3	56.3	< 0.005	0.01	< 0.005	58.6
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	63.8	63.8	< 0.005	< 0.005	—	64.1
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.42	0.42	< 0.005	0.04	0.04	—	3.41	3.41	< 0.005	< 0.005	< 0.005	3.55
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.6	10.6	< 0.005	< 0.005	—	10.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	0.56	0.56	< 0.005	< 0.005	< 0.005	0.59
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.13	0.11	1.27	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	274	274	0.01	0.01	0.02	278
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.25	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	186	186	< 0.005	0.03	0.01	195
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.1	17.1	< 0.005	< 0.005	0.02	17.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	0.01	11.8

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.84	2.84	< 0.005	< 0.005	< 0.005	2.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.87	1.87	< 0.005	< 0.005	< 0.005	1.95

3.49. Aerial Guideway: Retaining Wall (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	2.94	5.40	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.2	54.2	< 0.005	0.01	0.10	56.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	0.43	2.94	5.40	0.01	0.12	—	0.12	0.11	—	0.11	—	1,052	1,052	0.04	0.01	—	1,056
Onsite truck	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	7.42	7.42	< 0.005	0.74	0.74	—	54.3	54.3	< 0.005	0.01	< 0.005	56.5
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.62	1.14	< 0.005	0.02	—	0.02	0.02	—	0.02	—	222	222	0.01	< 0.005	—	223
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	1.47	1.47	< 0.005	0.15	0.15	—	11.5	11.5	< 0.005	< 0.005	0.01	11.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.11	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	36.8	36.8	< 0.005	< 0.005	—	37.0

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.27	0.27	< 0.005	0.03	0.03	—	1.90	1.90	< 0.005	< 0.005	< 0.005	1.98
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.08	1.54	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	301	301	0.01	0.01	0.75	305
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.23	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	181	181	< 0.005	0.03	0.31	190
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.13	0.10	1.18	0.00	0.00	0.31	0.31	0.00	0.07	0.07	—	269	269	0.01	0.01	0.02	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.25	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	181	181	< 0.005	0.03	0.01	190
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	58.6	58.6	< 0.005	< 0.005	0.07	59.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	38.3	38.3	< 0.005	0.01	0.03	40.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.70	9.70	< 0.005	< 0.005	0.01	9.85
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.34	6.34	< 0.005	< 0.005	< 0.005	6.65

3.51. Mainline Track: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.44	0.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	110	110	< 0.005	< 0.005	—	111
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.52	1.52	< 0.005	0.15	0.15	—	10.3	10.3	< 0.005	< 0.005	0.01	10.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.3	18.3	< 0.005	< 0.005	—	18.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28	0.28	< 0.005	0.03	0.03	—	1.70	1.70	< 0.005	< 0.005	< 0.005	1.77
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.41	8.41	< 0.005	< 0.005	0.01	8.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.0	22.0	< 0.005	< 0.005	0.02	23.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.64	3.64	< 0.005	< 0.005	< 0.005	3.81

3.53. Mainline Track: Track Installation (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.17	0.07	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.30	169
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.18	0.08	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.01	169
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.79	2.56	< 0.005	0.07	—	0.07	0.06	—	0.06	—	481	481	0.02	< 0.005	—	483

Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	0.00	6.60	6.60	0.00	0.66	0.66	—	43.0	43.0	< 0.005	0.01	0.03	44.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.33	0.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	79.6	79.6	< 0.005	< 0.005	—	79.9
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	1.21	1.21	0.00	0.12	0.12	—	7.11	7.11	< 0.005	< 0.005	0.01	7.41
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.03	0.71	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	147	147	< 0.005	< 0.005	0.33	148
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.45	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	353	353	< 0.005	0.06	0.56	370
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	354	354	< 0.005	0.06	0.01	370
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.8	35.8	< 0.005	< 0.005	0.04	36.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.12	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.4	93.4	< 0.005	0.01	0.06	97.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.92	5.92	< 0.005	< 0.005	0.01	6.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.01	16.2

3.55. Mainline Track: At-Grade Crossing (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.19	1.53	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	—	365	365	0.01	< 0.005	—	366
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.38	0.38	0.00	0.04	0.04	—	2.87	2.87	< 0.005	< 0.005	< 0.005	2.99
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.07	0.07	0.00	0.01	0.01	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.49
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	0.01	12.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	0.00	0.02	0.02	0.00	0.01	0.01	—	60.5	60.5	< 0.005	0.01	0.05	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.97	1.97	< 0.005	< 0.005	< 0.005	2.00
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	10.0	10.0	< 0.005	< 0.005	0.01	10.4

3.57. Access Track: Track Installation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	0.90	7.55	10.1	0.02	0.31	—	0.31	0.28	—	0.28	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	0.01	0.20	0.09	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	176	176	< 0.005	0.02	0.01	183
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.46	0.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	110	110	< 0.005	< 0.005	—	111

Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	1.52	1.52	< 0.005	0.15	0.15	—	10.7	10.7	< 0.005	< 0.005	0.01	11.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.3	18.3	< 0.005	< 0.005	—	18.3
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.28	0.28	< 0.005	0.03	0.03	—	1.77	1.77	< 0.005	< 0.005	< 0.005	1.84
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.64	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	137	137	< 0.005	0.01	0.01	139
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.50	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	372	372	< 0.005	0.06	0.02	389
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.56	8.56	< 0.005	< 0.005	0.01	8.69
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	22.5	22.5	< 0.005	< 0.005	0.02	23.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.73	3.73	< 0.005	< 0.005	< 0.005	3.91

3.59. Access Track: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	0.01	0.18	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	169	169	< 0.005	0.02	0.34	176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.92	2.66	< 0.005	0.08	—	0.08	0.07	—	0.07	—	484	484	0.02	< 0.005	—	486
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	6.65	6.65	< 0.005	0.66	0.66	—	45.1	45.1	< 0.005	0.01	0.04	46.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.35	0.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	80.2	80.2	< 0.005	< 0.005	—	80.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	1.21	1.21	< 0.005	0.12	0.12	—	7.47	7.47	< 0.005	< 0.005	0.01	7.76
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.46	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	362	362	< 0.005	0.06	0.62	380

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36.9	36.9	< 0.005	< 0.005	0.04	37.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	96.4	96.4	< 0.005	0.02	0.07	101
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.11	6.11	< 0.005	< 0.005	0.01	6.20
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	16.0	16.0	< 0.005	< 0.005	0.01	16.7

3.61. Access Track: At-Grade Crossing (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.81	15.2	17.7	0.03	0.68	—	0.68	0.63	—	0.63	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	3.71	3.71	< 0.005	0.37	0.37	—	27.1	27.1	< 0.005	< 0.005	0.05	28.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.20	1.66	1.94	< 0.005	0.07	—	0.07	0.07	—	0.07	—	365	365	0.01	< 0.005	—	366
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.38	0.38	< 0.005	0.04	0.04	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.30	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.51
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.03	0.62	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	120	120	< 0.005	< 0.005	0.30	122
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.36	0.12	0.01	0.01	0.20	0.20	0.01	0.05	0.05	—	576	576	0.01	0.07	1.22	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.2	12.2	< 0.005	< 0.005	0.01	12.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	63.1	63.1	< 0.005	0.01	0.06	65.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.01	2.01	< 0.005	< 0.005	< 0.005	2.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	10.9

3.63. LMF: Track Installation (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.87	7.21	9.98	0.02	0.29	—	0.29	0.27	—	0.27	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	26.7	26.7	< 0.005	2.67	2.67	—	170	170	< 0.005	0.02	0.01	176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.16	1.30	1.80	< 0.005	0.05	—	0.05	0.05	—	0.05	—	328	328	0.01	< 0.005	—	329
Onsite truck	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	4.50	4.50	< 0.005	0.45	0.45	—	30.5	30.5	< 0.005	< 0.005	0.03	31.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	0.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54.3	54.3	< 0.005	< 0.005	—	54.4
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.82	0.82	< 0.005	0.08	0.08	—	5.05	5.05	< 0.005	< 0.005	< 0.005	5.25
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.49	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	363	363	< 0.005	0.06	0.02	380
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.03	25.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.2	65.2	< 0.005	0.01	0.05	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	< 0.005	4.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.01	11.3

3.65. LMF: Track Installation (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99	0.83	6.79	9.68	0.02	0.26	—	0.26	0.24	—	0.24	—	1,820	1,820	0.07	0.01	—	1,827
Onsite truck	0.01	< 0.005	0.18	0.08	< 0.005	0.00	26.7	26.7	0.00	2.67	2.67	—	163	163	< 0.005	0.02	0.01	169
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.03	0.27	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	71.3	71.3	< 0.005	< 0.005	—	71.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.98	0.98	0.00	0.10	0.10	—	6.37	6.37	< 0.005	< 0.005	0.01	6.63
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.8	11.8	< 0.005	< 0.005	—	11.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.18	0.18	0.00	0.02	0.02	—	1.05	1.05	< 0.005	< 0.005	< 0.005	1.10
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.48	0.12	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	354	354	< 0.005	0.06	0.01	370
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.30	5.30	< 0.005	< 0.005	0.01	5.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.8	13.8	< 0.005	< 0.005	0.01	14.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.88	0.88	< 0.005	< 0.005	< 0.005	0.89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	2.29	2.29	< 0.005	< 0.005	< 0.005	2.40

3.67. Station Parking: Parking (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	3.83	4.49	0.01	0.17	—	0.17	0.15	—	0.15	—	912	912	0.04	0.01	—	915
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	0.00	0.95	0.95	0.00	0.09	0.09	—	7.17	7.17	< 0.005	< 0.005	< 0.005	7.47
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.09	0.70	0.82	< 0.005	0.03	—	0.03	0.03	—	0.03	—	151	151	0.01	< 0.005	—	151
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.17	0.17	0.00	0.02	0.02	—	1.19	1.19	< 0.005	< 0.005	< 0.005	1.24
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.7	29.7	< 0.005	< 0.005	0.03	30.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.09	0.03	< 0.005	0.00	0.05	0.05	0.00	0.01	0.01	—	151	151	< 0.005	0.02	0.13	157
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.91	4.91	< 0.005	< 0.005	0.01	4.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	25.0	25.0	< 0.005	< 0.005	0.02	26.1

3.69. Solar - Structure (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.33	5.43	0.01	0.08	—	0.08	0.07	—	0.07	—	818	818	0.03	0.01	—	821
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.7	12.7	< 0.005	< 0.005	0.02	13.3

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.27	0.64	< 0.005	0.01	—	0.01	0.01	—	0.01	—	96.3	96.3	< 0.005	< 0.005	—	96.7
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	—	1.50	1.50	< 0.005	< 0.005	< 0.005	1.57
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.0	16.0	< 0.005	< 0.005	—	16.0
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	65.6	65.6	< 0.005	0.01	0.11	68.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.3	16.3	< 0.005	< 0.005	0.02	16.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.73	7.73	< 0.005	< 0.005	0.01	8.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.70	2.70	< 0.005	< 0.005	< 0.005	2.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	< 0.005	—	1.28	1.28	< 0.005	< 0.005	< 0.005	1.34

3.71. Solar - Panel (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	0.79	3.17	< 0.005	0.04	—	0.04	0.04	—	0.04	—	502	502	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.7	12.7	< 0.005	< 0.005	0.02	13.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	0.79	3.17	< 0.005	0.04	—	0.04	0.04	—	0.04	—	502	502	0.02	< 0.005	—	504
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.8	12.8	< 0.005	< 0.005	< 0.005	13.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.14	0.57	< 0.005	0.01	—	0.01	0.01	—	0.01	—	89.4	89.4	< 0.005	< 0.005	—	89.7
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	—	2.27	2.27	< 0.005	< 0.005	< 0.005	2.37
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.03	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.8	14.8	< 0.005	< 0.005	—	14.9
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.39
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.7	24.7	< 0.005	< 0.005	0.03	25.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.09	4.09	< 0.005	< 0.005	< 0.005	4.15
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.73. Solar - Electrical (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.8	12.8	< 0.005	< 0.005	< 0.005	13.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	—	2.30	2.30	< 0.005	< 0.005	< 0.005	2.39
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.03	25.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.13	4.13	< 0.005	< 0.005	< 0.005	4.19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.75. Solar - Electrical (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	0.00	1.48	1.48	0.00	0.15	0.15	—	12.4	12.4	< 0.005	< 0.005	< 0.005	12.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.16	0.16	0.00	0.02	0.02	—	1.40	1.40	< 0.005	< 0.005	< 0.005	1.46
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.03	0.03	0.00	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.02	15.6

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.54	2.54	< 0.005	< 0.005	< 0.005	2.58
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.77. Solar - Utility (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Onsite truck	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.7	12.7	< 0.005	< 0.005	0.02	13.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	1.48	1.48	< 0.005	0.15	0.15	—	12.8	12.8	< 0.005	< 0.005	< 0.005	13.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.38	0.45	< 0.005	0.01	—	0.01	0.01	—	0.01	—	67.8	67.8	< 0.005	< 0.005	—	68.0
Onsite truck	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.91	0.91	< 0.005	0.09	0.09	—	8.34	8.34	< 0.005	< 0.005	0.01	8.69

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	—	11.3
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.17	0.17	< 0.005	0.02	0.02	—	1.38	1.38	< 0.005	< 0.005	< 0.005	1.44
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.04	0.77	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	150	150	< 0.005	0.01	0.38	153
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.59	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	134	134	< 0.005	0.01	0.01	137
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.03	0.40	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.6	90.6	< 0.005	< 0.005	0.11	92.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.02	15.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.79. Solar - Utility (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.69	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Onsite truck	< 0.005	< 0.005	0.05	0.03	< 0.005	0.00	1.48	1.48	0.00	0.15	0.15	—	12.4	12.4	< 0.005	< 0.005	< 0.005	12.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.5	18.5	< 0.005	< 0.005	—	18.5
Onsite truck	< 0.005	< 0.005	0.01	< 0.005	< 0.005	0.00	0.25	0.25	0.00	0.02	0.02	—	2.20	2.20	< 0.005	< 0.005	< 0.005	2.30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.06	3.06	< 0.005	< 0.005	—	3.07
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.05	0.05	0.00	< 0.005	< 0.005	—	0.36	0.36	< 0.005	< 0.005	< 0.005	0.38
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.04	0.55	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	131	131	< 0.005	0.01	0.01	133
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	24.1	24.1	< 0.005	< 0.005	0.03	24.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.05
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.81. LMF: Parking (2032) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.1	26.1	< 0.005	< 0.005	0.04	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04	1.71	14.0	16.4	0.03	0.61	—	0.61	0.56	—	0.56	—	3,327	3,327	0.13	0.03	—	3,339
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.06	0.03	< 0.005	0.00	3.71	3.71	0.00	0.37	0.37	—	26.2	26.2	< 0.005	< 0.005	< 0.005	27.3

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.56	4.59	5.39	0.01	0.20	—	0.20	0.18	—	0.18	—	1,094	1,094	0.04	0.01	—	1,098
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	0.00	1.14	1.14	0.00	0.11	0.11	—	8.60	8.60	< 0.005	< 0.005	0.01	8.96
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.84	0.98	< 0.005	0.04	—	0.04	0.03	—	0.03	—	181	181	0.01	< 0.005	—	182
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.21	0.21	0.00	0.02	0.02	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.48
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.03	0.57	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	< 0.005	0.27	118
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.32	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	1.08	575
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.03	0.44	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	105	105	< 0.005	0.01	0.01	107
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.35	0.11	0.01	0.00	0.20	0.20	0.00	0.05	0.05	—	552	552	0.01	0.07	0.03	574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.04	36.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.11	0.04	< 0.005	0.00	0.06	0.06	0.00	0.02	0.02	—	181	181	< 0.005	0.02	0.15	189

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.90	5.90	< 0.005	< 0.005	0.01	5.99
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	< 0.005	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	30.0	30.0	< 0.005	< 0.005	0.03	31.3

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Shifted Spur: Demolition	Demolition	7/1/2029	7/29/2029	5.00	20.0	Shifted Spur-101
Shifted Spur: Track Demolition	Demolition	5/1/2030	6/25/2030	5.00	40.0	Shifted Spur-601
Aerial Guideway: Demolition	Demolition	1/1/2030	1/28/2030	5.00	20.0	Aerial Guideway-102
Mainline Track: Demolition	Demolition	7/1/2031	9/22/2031	5.00	60.0	Mainline Track-103
Access Track: Demolition	Demolition	7/1/2030	8/23/2030	5.00	40.0	Access Track-104
Station Parking: Demolition	Demolition	10/1/2031	10/28/2031	5.00	20.0	Station Parking-105
Shifted Spur: Initial Grading	Site Preparation	8/1/2029	10/23/2029	5.00	60.0	Shifted Spur-201
Aerial Guideway: Retaining Wall Fill	Site Preparation	7/1/2031	9/22/2031	5.00	60.0	Aerial Guideway-701
Mainline Track: Initial Grading	Site Preparation	9/1/2031	11/21/2031	5.00	60.0	Mainline Track-202
Access Track: Initial Grading	Site Preparation	9/1/2030	11/22/2030	5.00	60.0	Access Track-203
LMF: Initial Grading	Site Preparation	7/1/2031	9/22/2031	5.00	60.0	LMF-204
Station Parking: Initial Grading	Site Preparation	11/1/2031	1/23/2032	5.00	60.0	Station Parking-205
Solar-Site	Site Preparation	7/1/2031	8/29/2031	5.00	44.0	Solar Field Site Work

Aerial Guideway: Aerial Structure Foundation	Grading	2/1/2030	7/18/2030	5.00	120	Aerial Guideway-302
Shifted Spur: Bear Creek Bridge	Building Construction	10/1/2029	12/21/2029	5.00	60.0	Shifted Spur-301
Shifted Spur: Track Installation	Building Construction	1/1/2030	3/25/2030	5.00	60.0	Shifted Spur-401
Shifted Spur: At-Grade Crossing	Building Construction	3/1/2030	4/25/2030	5.00	40.0	Shifted Spur-501
Aerial Guideway: Aerial Structure Column	Building Construction	8/1/2030	1/15/2031	5.00	120	Aerial Guideway-303
Aerial Guideway: Aerial Structure Bent	Building Construction	2/1/2031	6/20/2031	5.00	100	Aerial Guideway-304
Aerial Guideway: Aerial Structure Superstructure	Building Construction	6/1/2031	12/12/2031	5.00	140	Aerial Guideway-305
Aerial Guideway: Retaining Wall Foundation	Building Construction	9/1/2030	11/22/2030	5.00	60.0	Aerial Guideway-306
Aerial Guideway: Retaining Wall	Building Construction	12/1/2030	4/18/2031	5.00	100	Aerial Guideway-307
Mainline Track: Track Installation	Building Construction	12/1/2031	5/14/2032	5.00	120	Mainline Track-402
Mainline Track: At-Grade Crossing	Building Construction	5/1/2032	6/25/2032	5.00	40.0	Mainline Track-502
Access Track: Track Installation	Building Construction	12/1/2030	5/16/2031	5.00	120	Access Track-403
Access Track: At-Grade Crossing	Building Construction	5/1/2031	6/25/2031	5.00	40.0	Access Track-503
LMF: Track Installation	Building Construction	10/1/2031	1/20/2032	5.00	80.0	LMF-404
Station Parking: Parking	Building Construction	2/1/2032	6/18/2032	5.00	100	Station Parking-602
Solar - Structure	Building Construction	8/1/2031	9/30/2031	5.00	43.0	Solar Field Structure
Solar - Panel	Building Construction	9/1/2031	11/28/2031	5.00	65.0	Solar Field - Panel
Solar - Electrical	Building Construction	10/1/2031	2/27/2032	5.00	108	Solar Field - Electrical
Solar - Utility	Building Construction	2/1/2031	3/31/2032	5.00	303	Solar Field - Utility

LMF: Parking	Paving	1/1/2032	6/16/2032	5.00	120	LMF-601

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
Shifted Spur: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: Track Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Track Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Track Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Track Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Aerial Guideway: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Aerial Guideway: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Aerial Guideway: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Aerial Guideway: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40

Mainline Track: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Access Track: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Demolition	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Demolition	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Demolition	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Demolition	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Aerial Guideway: Retaining Wall Fill	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Aerial Guideway: Retaining Wall Fill	Graders	Diesel	Average	1.00	4.00	148	0.41

Aerial Guideway: Retaining Wall Fill	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Aerial Guideway: Retaining Wall Fill	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Mainline Track: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Access Track: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
LMF: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
LMF: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
LMF: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
LMF: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Initial Grading	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Initial Grading	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Initial Grading	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Initial Grading	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Solar-Site	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40

Solar-Site	Graders	Diesel	Average	1.00	4.00	148	0.41
Aerial Guideway: Aerial Structure Foundation	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Foundation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Foundation	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Foundation	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Foundation	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Shifted Spur: Bear Creek Bridge	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Shifted Spur: Bear Creek Bridge	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Shifted Spur: Bear Creek Bridge	Cranes	Diesel	Average	1.00	3.00	367	0.29
Shifted Spur: Bear Creek Bridge	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Shifted Spur: Bear Creek Bridge	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Shifted Spur: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Shifted Spur: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Shifted Spur: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Shifted Spur: Track Installation	Other Construction Equipment	Diesel	Average	3.00	2.00	82.0	0.42
Shifted Spur: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
Shifted Spur: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36

Shifted Spur: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41
Shifted Spur: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Shifted Spur: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Shifted Spur: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Shifted Spur: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Aerial Guideway: Aerial Structure Column	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Column	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Column	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Column	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Column	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Bent	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Aerial Structure Bent	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Bent	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Bent	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Bent	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Aerial Structure Superstructure	Cranes	Diesel	Average	1.00	3.00	367	0.29

Aerial Guideway: Aerial Structure Superstructure	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Aerial Structure Superstructure	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Aerial Structure Superstructure	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Aerial Structure Superstructure	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Retaining Wall Foundation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Retaining Wall Foundation	Generator Sets	Diesel	Average	2.00	7.00	14.0	0.74
Aerial Guideway: Retaining Wall Foundation	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Aerial Guideway: Retaining Wall Foundation	Pumps	Diesel	Average	1.00	1.00	11.0	0.74
Aerial Guideway: Retaining Wall Foundation	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Aerial Guideway: Retaining Wall	Cranes	Diesel	Average	1.00	3.00	367	0.29
Aerial Guideway: Retaining Wall	Generator Sets	Diesel	Average	1.00	7.00	14.0	0.74
Aerial Guideway: Retaining Wall	Welders	Diesel	Average	1.00	3.00	46.0	0.45
Aerial Guideway: Retaining Wall	Pumps	Diesel	Average	1.00	1.00	11.0	0.74

Aerial Guideway: Retaining Wall	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Mainline Track: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Mainline Track: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Mainline Track: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Mainline Track: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
Mainline Track: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
Mainline Track: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Mainline Track: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41
Mainline Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Mainline Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Mainline Track: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Mainline Track: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Access Track: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
Access Track: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
Access Track: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
Access Track: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
Access Track: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40

Access Track: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Access Track: At-Grade Crossing	Graders	Diesel	Average	1.00	4.00	148	0.41
Access Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Access Track: At-Grade Crossing	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Access Track: At-Grade Crossing	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Access Track: At-Grade Crossing	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
LMF: Track Installation	Cranes	Diesel	Average	1.00	3.00	367	0.29
LMF: Track Installation	Welders	Diesel	Average	3.00	3.00	46.0	0.45
LMF: Track Installation	Graders	Diesel	Average	1.00	3.00	148	0.41
LMF: Track Installation	Other Construction Equipment	Diesel	Average	3.00	3.00	82.0	0.42
LMF: Track Installation	Rubber Tired Dozers	Diesel	Average	1.00	3.00	367	0.40
LMF: Track Installation	Rubber Tired Loaders	Diesel	Average	1.00	2.00	150	0.36
Station Parking: Parking	Graders	Diesel	Average	1.00	4.00	148	0.41
Station Parking: Parking	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
Station Parking: Parking	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
Station Parking: Parking	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43
Station Parking: Parking	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Solar - Structure	Welders	Diesel	Average	2.00	3.00	46.0	0.45
Solar - Structure	Other Construction Equipment	Diesel	Average	1.00	4.00	82.0	0.42
Solar - Structure	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Solar - Panel	Rubber Tired Loaders	Diesel	Average	4.00	2.00	150	0.36
Solar - Utility	Trenchers	Diesel	Average	1.00	4.00	40.0	0.50

LMF: Parking	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
LMF: Parking	Graders	Diesel	Average	1.00	4.00	148	0.41
LMF: Parking	Rubber Tired Dozers	Diesel	Average	2.00	5.00	367	0.40
LMF: Parking	Rubber Tired Dozers	Diesel	Average	1.00	4.00	367	0.40
LMF: Parking	Plate Compactors	Diesel	Average	2.00	4.00	8.00	0.43

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Shifted Spur: Demolition	—	—	—	—
Shifted Spur: Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Demolition	Hauling	8.00	32.0	MHDT
Shifted Spur: Demolition	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Initial Grading	—	—	—	—
Shifted Spur: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Shifted Spur: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Initial Grading	Hauling	8.00	32.0	MHDT
Shifted Spur: Initial Grading	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Bear Creek Bridge	—	—	—	—
Shifted Spur: Bear Creek Bridge	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Bear Creek Bridge	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Bear Creek Bridge	Hauling	2.00	10.0	HHDT
Shifted Spur: Bear Creek Bridge	Onsite truck	20.0	1.00	MHDT
Shifted Spur: Track Installation	—	—	—	—
Shifted Spur: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2

Shifted Spur: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Track Installation	Hauling	8.00	15.0	HHDT
Shifted Spur: Track Installation	Onsite truck	18.0	4.00	MHDT
Shifted Spur: At-Grade Crossing	—	—	—	—
Shifted Spur: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Shifted Spur: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Shifted Spur: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
Shifted Spur: Track Demolition	—	—	—	—
Shifted Spur: Track Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Shifted Spur: Track Demolition	Vendor	0.00	8.27	HHDT,MHDT
Shifted Spur: Track Demolition	Hauling	8.00	32.0	MHDT
Shifted Spur: Track Demolition	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Demolition	—	—	—	—
Aerial Guideway: Demolition	Worker	8.00	10.9	LDA,LDT1,LDT2
Aerial Guideway: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Demolition	Hauling	8.00	32.0	MHDT
Aerial Guideway: Demolition	Onsite truck	10.0	1.00	MHDT
Mainline Track: Demolition	—	—	—	—
Mainline Track: Demolition	Worker	12.0	10.9	LDA,LDT1,LDT2
Mainline Track: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Demolition	Hauling	8.00	32.0	MHDT
Mainline Track: Demolition	Onsite truck	10.0	1.00	MHDT
Access Track: Demolition	—	—	—	—
Access Track: Demolition	Worker	20.0	10.9	LDA,LDT1,LDT2
Access Track: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Demolition	Hauling	8.00	32.0	MHDT

Access Track: Demolition	Onsite truck	10.0	1.00	MHDT
Station Parking: Demolition	—	—	—	—
Station Parking: Demolition	Worker	8.00	10.9	LDA,LDT1,LDT2
Station Parking: Demolition	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Demolition	Hauling	8.00	32.0	MHDT
Station Parking: Demolition	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Retaining Wall Fill	—	—	—	—
Aerial Guideway: Retaining Wall Fill	Worker	12.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Retaining Wall Fill	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Retaining Wall Fill	Hauling	8.00	32.0	MHDT
Aerial Guideway: Retaining Wall Fill	Onsite truck	10.0	1.00	MHDT
Mainline Track: Initial Grading	—	—	—	—
Mainline Track: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Mainline Track: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Initial Grading	Hauling	8.00	32.0	MHDT
Mainline Track: Initial Grading	Onsite truck	10.0	1.00	MHDT
Access Track: Initial Grading	—	—	—	—
Access Track: Initial Grading	Worker	8.00	10.9	LDA,LDT1,LDT2
Access Track: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Initial Grading	Hauling	8.00	32.0	MHDT
Access Track: Initial Grading	Onsite truck	10.0	1.00	MHDT
LMF: Initial Grading	—	—	—	—
LMF: Initial Grading	Worker	16.0	10.9	LDA,LDT1,LDT2
LMF: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
LMF: Initial Grading	Hauling	8.00	32.0	MHDT
LMF: Initial Grading	Onsite truck	10.0	1.00	MHDT
Station Parking: Initial Grading	—	—	—	—

Station Parking: Initial Grading	Worker	16.0	10.9	LDA,LDT1,LDT2
Station Parking: Initial Grading	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Initial Grading	Hauling	8.00	32.0	MHDT
Station Parking: Initial Grading	Onsite truck	10.0	1.00	MHDT
Aerial Guideway: Aerial Structure Foundation	—	—	—	—
Aerial Guideway: Aerial Structure Foundation	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Foundation	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Foundation	Hauling	25.0	19.0	HHDT
Aerial Guideway: Aerial Structure Foundation	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Column	—	—	—	—
Aerial Guideway: Aerial Structure Column	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Column	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Column	Hauling	8.00	17.0	HHDT
Aerial Guideway: Aerial Structure Column	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Bent	—	—	—	—
Aerial Guideway: Aerial Structure Bent	Worker	20.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Bent	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Bent	Hauling	6.00	16.0	HHDT
Aerial Guideway: Aerial Structure Bent	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Aerial Structure Superstructure	—	—	—	—

Aerial Guideway: Aerial Structure Superstructure	Worker	24.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Aerial Structure Superstructure	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Aerial Structure Superstructure	Hauling	4.00	14.0	HHDT
Aerial Guideway: Aerial Structure Superstructure	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Retaining Wall Foundation	—	—	—	—
Aerial Guideway: Retaining Wall Foundation	Worker	12.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Retaining Wall Foundation	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Retaining Wall Foundation	Hauling	7.00	17.0	HHDT
Aerial Guideway: Retaining Wall Foundation	Onsite truck	20.0	1.00	MHDT
Aerial Guideway: Retaining Wall	—	—	—	—
Aerial Guideway: Retaining Wall	Worker	40.0	10.9	LDA,LDT1,LDT2
Aerial Guideway: Retaining Wall	Vendor	0.00	8.27	HHDT,MHDT
Aerial Guideway: Retaining Wall	Hauling	4.00	15.0	HHDT
Aerial Guideway: Retaining Wall	Onsite truck	20.0	1.00	MHDT
Mainline Track: Track Installation	—	—	—	—
Mainline Track: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
Mainline Track: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Mainline Track: Track Installation	Hauling	8.00	15.0	HHDT
Mainline Track: Track Installation	Onsite truck	18.0	4.00	MHDT
Mainline Track: At-Grade Crossing	—	—	—	—
Mainline Track: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Mainline Track: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT

Mainline Track: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Mainline Track: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
Access Track: Track Installation	—	—	—	—
Access Track: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
Access Track: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
Access Track: Track Installation	Hauling	8.00	15.0	HHDT
Access Track: Track Installation	Onsite truck	18.0	4.00	MHDT
Access Track: At-Grade Crossing	—	—	—	—
Access Track: At-Grade Crossing	Worker	16.0	10.9	LDA,LDT1,LDT2
Access Track: At-Grade Crossing	Vendor	0.00	8.27	HHDT,MHDT
Access Track: At-Grade Crossing	Hauling	8.00	32.0	MHDT
Access Track: At-Grade Crossing	Onsite truck	10.0	1.00	MHDT
LMF: Track Installation	—	—	—	—
LMF: Track Installation	Worker	20.0	10.9	LDA,LDT1,LDT2
LMF: Track Installation	Vendor	0.00	8.27	HHDT,MHDT
LMF: Track Installation	Hauling	8.00	15.0	HHDT
LMF: Track Installation	Onsite truck	18.0	4.00	MHDT
Station Parking: Parking	—	—	—	—
Station Parking: Parking	Worker	16.0	10.9	LDA,LDT1,LDT2
Station Parking: Parking	Vendor	0.00	8.27	HHDT,MHDT
Station Parking: Parking	Hauling	8.00	32.0	MHDT
Station Parking: Parking	Onsite truck	10.0	1.00	MHDT
LMF: Parking	—	—	—	—
LMF: Parking	Worker	16.0	10.9	LDA,LDT1,LDT2
LMF: Parking	Vendor	0.00	8.27	HHDT,MHDT
LMF: Parking	Hauling	8.00	32.0	MHDT
LMF: Parking	Onsite truck	10.0	1.00	MHDT

Solar-Site	—	—	—	—
Solar-Site	Worker	20.0	10.9	LDA,LDT1,LDT2
Solar-Site	Vendor	0.00	8.27	HHDT,MHDT
Solar-Site	Hauling	0.00	20.0	HHDT
Solar-Site	Onsite truck	1.00	1.00	HHDT
Solar - Structure	—	—	—	—
Solar - Structure	Worker	20.0	10.9	LDA,LDT1,LDT2
Solar - Structure	Vendor	0.00	8.27	HHDT,MHDT
Solar - Structure	Hauling	1.00	22.0	HHDT
Solar - Structure	Onsite truck	8.00	0.50	MHDT
Solar - Panel	—	—	—	—
Solar - Panel	Worker	20.0	10.9	LDA,LDT1,LDT2
Solar - Panel	Vendor	0.00	8.27	HHDT,MHDT
Solar - Panel	Hauling	0.00	20.0	HHDT
Solar - Panel	Onsite truck	8.00	0.50	MHDT
Solar - Electrical	—	—	—	—
Solar - Electrical	Worker	20.0	10.9	LDA,LDT1,LDT2
Solar - Electrical	Vendor	0.00	8.27	HHDT,MHDT
Solar - Electrical	Hauling	0.00	20.0	HHDT
Solar - Electrical	Onsite truck	8.00	0.50	MHDT
Solar - Utility	—	—	—	—
Solar - Utility	Worker	20.0	10.9	LDA,LDT1,LDT2
Solar - Utility	Vendor	0.00	8.27	HHDT,MHDT
Solar - Utility	Hauling	0.00	20.0	HHDT
Solar - Utility	Onsite truck	8.00	0.50	MHDT

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%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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)
Shifted Spur: At-Grade Crossing	0.00	0.00	0.00	0.00	0.00

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)
Shifted Spur: Demolition	0.00	0.00	0.00	16,500	—
Aerial Guideway: Demolition	0.00	0.00	0.00	14,500	—
Mainline Track: Demolition	0.00	0.00	0.00	218,345	—
Access Track: Demolition	0.00	0.00	0.00	400,000	—
Station Parking: Demolition	0.00	0.00	0.00	49,000	—
Shifted Spur: Initial Grading	10,222	0.00	2.00	0.00	—
Aerial Guideway: Retaining Wall Fill	7,674	0.00	0.00	0.00	—
Mainline Track: Initial Grading	6,444	0.00	1.00	0.00	—
Access Track: Initial Grading	10,889	0.00	2.00	0.00	—
LMF: Initial Grading	14,925	0.00	4.00	0.00	—
Station Parking: Initial Grading	1,821	0.00	0.00	0.00	—

Solar-Site	0.00	0.00	0.00	0.00	—
Aerial Guideway: Aerial Structure Foundation	13,906	0.00	0.00	0.00	—
LMF: Parking	0.00	0.00	0.00	0.00	3.60

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
User Defined Industrial	3.60	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2029	0.00	453	0.03	< 0.005
2030	0.00	453	0.03	< 0.005
2031	0.00	453	0.03	< 0.005
2032	0.00	453	0.03	< 0.005

8. User Changes to Default Data

Screen	Justification
Land Use	Generic input - 9 acres = total area disturbed for modeling purposes
Construction: Construction Phases	Per project engineers

Construction: Off-Road Equipment	Per project engineers
Construction: Dust From Material Movement	Per project engineers
Construction: Demolition	Per project engineers
Construction: Trips and VMT	Per project engineers. Includes precast haul trips.
Construction: Paving	Per engineers

MITC Construction Locomotive Calculations

Union Pacific Freight Train Emissions

Code	Depot (Idle) Site	Engine Tier	Engine HP	Op Hours/Day	Idle Hours/Day	Op LF	Idle LF	Total Days	Total Days Between Start	Total Days Between End
Shifted Spur-401	LMF	4	2950	4	0.5	47.5%	0.4%	20	1/1/2030	3/31/2030
Mainline Track-402	LMF	4	2950	4	0.5	47.5%	0.4%	40	12/1/2031	5/31/2032
Access Track-403	LMF	4	2950	4	0.5	47.5%	0.4%	40	12/1/2030	5/31/2031
LMF-404	LMF	4	2950	4	0.5	47.5%	0.4%	30	10/1/2031	1/20/2032

Code	Daily Idle Emissions (pounds)											Total Idle Emissions (tons, metric tons)										
	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O
Shifted Spur-401	0.00	0.01	0.02	0.00	0.00			0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0	0.00	0.00
Mainline Track-402	0.00	0.01	0.02	0.00	0.00			0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0	0.00	0.00
Access Track-403	0.00	0.01	0.02	0.00	0.00			0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0	0.00	0.00
LMF-404	0.00	0.01	0.02	0.00	0.00			0.00	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0	0.00	0.00

Code	Daily Movement Emissions (pounds)											Total Movement Emissions (tons, metric tons)										
	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O
Shifted Spur-401	0.52	12.37	15.83	0.19	0.18			0.06	6,071	0.48	0.15	0.01	0.12	0.16	0.00	0.00			0.00	55	0.00	0.00
Mainline Track-402	0.52	12.37	15.83	0.19	0.18			0.06	6,071	0.48	0.15	0.01	0.25	0.32	0.00	0.00			0.00	110	0.01	0.00
Access Track-403	0.52	12.37	15.83	0.19	0.18			0.06	6,071	0.48	0.15	0.01	0.25	0.32	0.00	0.00			0.00	110	0.01	0.00
LMF-404	0.52	12.37	15.83	0.19	0.18			0.06	6,071	0.48	0.15	0.01	0.19	0.24	0.00	0.00			0.00	83	0.01	0.00

Code	Total Daily Emissions (pounds)											Total Emissions (tons, metric tons)										
	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O	ROG	NOX	CO	PM10E	PM2.5E	PM10D	PM2.5D	SO2	CO2	CH4	N2O
Shifted Spur-401	0.52	12.38	15.85	0.19	0.18			0.06	6,078	0.48	0.15	0.01	0.12	0.16	0.00	0.00			0.00	55	0.00	0.00
Mainline Track-402	0.52	12.38	15.85	0.19	0.18			0.06	6,078	0.48	0.15	0.01	0.25	0.32	0.00	0.00			0.00	110	0.01	0.00
Access Track-403	0.52	12.38	15.85	0.19	0.18			0.06	6,078	0.48	0.15	0.01	0.25	0.32	0.00	0.00			0.00	110	0.01	0.00
LMF-404	0.52	12.38	15.85	0.19	0.18			0.06	6,078	0.48	0.15	0.01	0.19	0.24	0.00	0.00			0.00	83	0.01	0.00

Summary Emissions

Potential for Mainline Track-402 and LMF-404 to have concurrent hauling in Dec 2031 and Jan 2032.
Assume one haul phase for max 2030 and two haul phases for max 2031 and 2032.

Year	Max Daily Pounds										Annual Tons										Annual Metric Tons				
	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO_2T	CH_4	N_2O	R	CO_2e
2029	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0
2030	0.52	12.38	15.85	0.06	0.19	0.00	0.19	0.18	0.00	0.18	0.01	0.17	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	74	0.01	0.00	0.00	74
2031	1.04	24.76	31.70	0.11	0.37	0.00	0.37	0.36	0.00	0.36	0.02	0.39	0.50	0.00	0.01	0.00	0.01	0.01	0.00	0.01	172	0.01	0.00	0.00	174
2032	1.04	24.76	31.70	0.11	0.37	0.00	0.37	0.36	0.00	0.36	0.01	0.25	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	113	0.01	0.00	0.00	114

Overlapping Emissions with CalEEMod Output

Per schedule, locomotive hauling occurs between Jan to March 2030 and Dec 2030; Jan to May 2031 and Oct to Dec 2031; and Jan to May 2032.
Months in which max daily CalEEMod emissions occur:

2030	March/Dec (W), Sept (S)	Hauling overlaps with max Summer and Winer emissions-->Apply hauling emissions to max of either condition
2031	Sept (S), Nov/Dec (W)	Hauling only overlap with max Winter emissions-->Apply hauling emissions to only max winter condition
2032	Jan (W), May (S)	Hauling overlaps with max Summer and Winer emissions-->Apply hauling emissions to max of either condition

Section 2. Operations

San Joaquins Operation

Total Locomotive (no Hydrogen Variant) (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year				Gallons
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**DSL**
Existing	21.9	644.4	453.9	10.1	9.8	1.6	174,052	13.6	4.4	4.0	117.6	82.8	1.8	1.8	0.3	28,816	2.3	0.7	29,091	2,822,357
Future No Project, 8 trains	8.7	207.0	264.9	3.1	3.0	0.9	101,601	8.0	2.6	1.6	37.8	48.4	0.6	0.5	0.2	16,821	1.3	0.4	16,982	1,647,517
Future Project, 8 trains	8.7	207.0	264.9	3.1	3.0	0.9	101,601	8.0	2.6	1.6	37.8	48.4	0.6	0.5	0.2	16,821	1.3	0.4	16,982	1,647,517
Future Cumulative No Project, 12 trains	13.3	315.0	403.2	4.7	4.6	1.4	154,627	12.1	3.9	2.4	57.5	73.6	0.9	0.8	0.3	25,600	2.0	0.7	25,845	2,507,371
Future Cumulative Project, 12 trains	13.3	315.0	403.2	4.7	4.6	1.4	154,627	12.1	3.9	2.4	57.5	73.6	0.9	0.8	0.3	25,600	2.0	0.7	25,845	2,507,371
Relative to Existing																				
Future Project, 8 trains	-13.2	-437.4	-188.9	-7.0	-6.8	-0.7	-72,451	-5.7	-1.8	-2.4	-79.8	-34.5	-1.3	-1.2	-0.1	-11,995	-0.9	-0.3	-12,110	-1,174,840
Future Cumulative Project, 12 trains	-8.6	-329.4	-50.7	-5.4	-5.2	-0.2	-19,425	-1.5	-0.5	-1.6	-60.1	-9.2	-1.0	-0.9	0.0	-3,216	-0.3	-0.1	-3,247	-314,986
Relative to No Build																				
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0

Locomotive Movement (no Hydrogen Variant) (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (to Bakersfield)	21.9	643.5	453.3	10.1	9.8	1.6	173,822	13.6	4.4	4.0	117.4	82.7	1.8	1.8	0.3	28,778	2.3	0.7	29,053
Future No Project, 8 trains (to existing Merced Station)	8.7	206.1	263.9	3.1	3.0	0.9	101,188	7.9	2.6	1.6	37.6	48.2	0.6	0.5	0.2	16,753	1.3	0.4	16,913
Future Project, 8 trains (to new Merced Station)	8.7	206.1	263.9	3.1	3.0	0.9	101,188	7.9	2.6	1.6	37.6	48.2	0.6	0.5	0.2	16,753	1.3	0.4	16,913
Future Cumulative No Project, 12 trains (to existing Merced Station)	13.2	313.7	401.6	4.7	4.6	1.4	154,008	12.1	3.9	2.4	57.3	73.3	0.9	0.8	0.3	25,498	2.0	0.6	25,741
Future Cumulative Project, 12 trains (to new Merced Station)	13.2	313.7	401.6	4.7	4.6	1.4	154,008	12.1	3.9	2.4	57.3	73.3	0.9	0.8	0.3	25,498	2.0	0.6	25,741
Relative to Existing																			
Future Project, 8 trains (to new Merced Station)	-13.2	-437.4	-189.4	-7.0	-6.8	-0.7	-72,634	-5.7	-1.8	-2.4	-79.8	-34.6	-1.3	-1.2	-0.1	-12,025	-0.9	-0.3	-12,140
Future Project, 12 trains (to new Merced Station)	-8.6	-329.8	-51.7	-5.4	-5.2	-0.2	-19,814	-1.6	-0.5	-1.6	-60.2	-9.4	-1.0	-1.0	0.0	-3,280	-0.3	-0.1	-3,312
Relative to No Build																			
Future Project, 8 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

LMF Idle (no Hydrogen Variant) (SJVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (Bakersfield Layover)	0.0	0.7	0.5	0.0	0.0	0.0	197	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	33
Future No Project, 8 trains (@ACE Merced LMF)	0.0	0.5	0.6	0.0	0.0	0.0	248	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.5	0.6	0.0	0.0	0.0	248	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Future Cumulative No Project, 12 trains (@ACE Merced LMF)	0.0	0.8	1.0	0.0	0.0	0.0	372	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Future Cumulative Project, 12 trains (@ACE Merced LMF)	0.0	0.8	1.0	0.0	0.0	0.0	372	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Relative to Existing																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	-0.2	0.1	0.0	0.0	0.0	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	8
Future Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.5	0.0	0.0	0.0	175	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	29	0.0	0.0	29
Relative to No Build																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Station Idle (no Hydrogen Variant) (SJVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (@ existing Merced Station)	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	5
Future No Project, 8 trains (@ existing Merced Station)	0.0	0.3	0.4	0.0	0.0	0.0	165	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Future Project, 8 trains (@ new Merced Station)	0.0	0.3	0.4	0.0	0.0	0.0	165	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Future Cumulative No Project, 12 trains (@ existing Merced Station)	0.0	0.5	0.6	0.0	0.0	0.0	248	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Future Cumulative Project, 12 trains (@ new Merced Station)	0.0	0.5	0.6	0.0	0.0	0.0	248	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Relative to Existing																			
Future Project, 8 trains (@ new Merced Station)	0.0	0.2	0.3	0.0	0.0	0.0	132	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	22	0.0	0.0	22
Future Project, 12 trains (@ new Merced Station)	0.0	0.4	0.6	0.0	0.0	0.0	215	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	36	0.0	0.0	36
Relative to No Build																			
Future Project, 8 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SJVAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	5.4	127.8	163.6	1.9	1.9	0.6	62,754	4.9	1.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Future Project, 8 trains	5.4	127.8	163.6	1.9	1.9	0.6	62,754	4.9	1.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Future Cumulative No Project, 12 trains	8.1	191.7	245.3	2.9	2.8	0.9	94,086	7.4	2.4	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Future Cumulative Project, 12 trains	8.1	191.7	245.3	2.9	2.8	0.9	94,086	7.4	2.4	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Relative to Existing																			
Future Project, 8 trains	-12.5	-399.4	-207.7	-6.3	-6.1	-0.7	-79,666	-6.2	-2.0	-2.3	-72.9	-37.9	-1.2	-1.1	-0.1	-13,190	-1.0	-0.3	-13,316
Future Cumulative Project, 12 trains	-9.8	-335.6	-126.0	-5.4	-5.2	-0.4	-48,335	-3.8	-1.2	-1.8	-61.2	-23.0	-1.0	-1.0	-0.1	-8,002	-0.6	-0.2	-8,079
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	2.6	61.8	79.1	0.9	0.9	0.3	30,353	2.4	0.8	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073
Future Project, 8 trains	2.6	61.8	79.1	0.9	0.9	0.3	30,353	2.4	0.8	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073
Future Cumulative No Project, 12 trains	3.1	73.7	94.4	1.1	1.1	0.3	36,201	2.8	0.9	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,051
Future Cumulative Project, 12 trains	3.1	73.7	94.4	1.1	1.1	0.3	36,201	2.8	0.9	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,051
Relative to Existing																			
Future Project, 8 trains	-0.8	-37.3	9.3	-0.6	-0.6	0.0	3,584	0.3	0.1	-0.1	-6.8	1.7	-0.1	-0.1	0.0	593	0.0	0.0	599
Future Cumulative Project, 12 trains	-0.3	-25.3	24.6	-0.4	-0.4	0.1	9,433	0.7	0.2	0.0	-4.6	4.5	-0.1	-0.1	0.0	1,562	0.1	0.0	1,577
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.7	16.5	21.1	0.2	0.2	0.1	8,081	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,351
Future Project, 8 trains	0.7	16.5	21.1	0.2	0.2	0.1	8,081	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,351
Future Cumulative No Project, 12 trains	2.0	48.3	61.9	0.7	0.7	0.2	23,721	1.9	0.6	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,965
Future Cumulative Project, 12 trains	2.0	48.3	61.9	0.7	0.7	0.2	23,721	1.9	0.6	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,965
Relative to Existing																			
Future Project, 8 trains	0.1	-0.7	9.0	0.0	0.0	0.0	3,448	0.3	0.1	0.0	-0.1	1.6	0.0	0.0	0.0	571	0.0	0.0	576
Future Cumulative Project, 12 trains	1.5	31.2	49.8	0.5	0.4	0.2	19,088	1.5	0.5	0.3	5.7	9.1	0.1	0.1	0.0	3,160	0.2	0.1	3,190
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Total Locomotive (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario) (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year				Gallons
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**DSL**
Existing	21.9	644.4	453.9	10.1	9.8	1.6	174,052	13.6	4.4	4.0	117.6	82.8	1.8	1.8	0.3	28,816	2.3	0.7	29,091	2,822,357
Future No Project, 8 trains	5.4	127.7	163.4	1.9	1.9	0.6	62,661	4.9	1.6	1.0	23.3	29.8	0.3	0.3	0.1	10,374	0.8	0.3	10,473	1,016,086
Future Project, 8 trains	5.4	127.7	163.4	1.9	1.9	0.6	62,661	4.9	1.6	1.0	23.3	29.8	0.3	0.3	0.1	10,374	0.8	0.3	10,473	1,016,086
Future Cumulative No Project, 12 trains	4.5	106.6	136.5	1.6	1.6	0.5	52,347	4.1	1.3	0.8	19.5	24.9	0.3	0.3	0.1	8,667	0.7	0.2	8,749	848,842
Future Cumulative Project, 12 trains	4.5	106.6	136.5	1.6	1.6	0.5	52,347	4.1	1.3	0.8	19.5	24.9	0.3	0.3	0.1	8,667	0.7	0.2	8,749	848,842
Relative to Existing																				
Future Project, 8 trains	-16.5	-516.7	-290.5	-8.2	-7.9	-1.0	-111,391	-8.7	-2.8	-3.0	-94.3	-53.0	-1.5	-1.4	-0.2	-18,442	-1.4	-0.5	-18,618	-1,806,271
Future Cumulative Project, 12 trains	-17.4	-537.7	-317.4	-8.5	-8.2	-1.1	-121,705	-9.5	-3.1	-3.2	-98.1	-57.9	-1.5	-1.5	-0.2	-20,150	-1.6	-0.5	-20,342	-1,973,515
Relative to No Build																				
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0

Locomotive Movement (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario) (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (to Bakersfield)	21.9	643.5	453.3	10.1	9.8	1.6	173,822	13.6	4.4	4.0	117.4	82.7	1.8	1.8	0.3	28,778	2.3	0.7	29,053
Future No Project, 8 trains (to existing Merced Station)	5.4	127.1	162.7	1.9	1.8	0.6	62,403	4.9	1.6	1.0	23.2	29.7	0.3	0.3	0.1	10,332	0.8	0.3	10,430
Future Project, 8 trains (to new Merced Station)	5.4	127.1	162.7	1.9	1.8	0.6	62,403	4.9	1.6	1.0	23.2	29.7	0.3	0.3	0.1	10,332	0.8	0.3	10,430
Future Cumulative No Project, 12 trains (to existing Merced Station)	4.5	106.2	136.0	1.6	1.5	0.5	52,141	4.1	1.3	0.8	19.4	24.8	0.3	0.3	0.1	8,632	0.7	0.2	8,715
Future Cumulative Project, 12 trains (to new Merced Station)	4.5	106.2	136.0	1.6	1.5	0.5	52,141	4.1	1.3	0.8	19.4	24.8	0.3	0.3	0.1	8,632	0.7	0.2	8,715
Relative to Existing																			
Future Project, 8 trains (to new Merced Station)	-16.5	-516.4	-290.5	-8.2	-7.9	-1.0	-111,419	-8.7	-2.8	-3.0	-94.2	-53.0	-1.5	-1.4	-0.2	-18,447	-1.4	-0.5	-18,623
Future Project, 12 trains (to new Merced Station)	-17.4	-537.3	-317.3	-8.5	-8.2	-1.1	-121,681	-9.5	-3.1	-3.2	-98.1	-57.9	-1.5	-1.5	-0.2	-20,146	-1.6	-0.5	-20,338
Relative to No Build																			
Future Project, 8 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

LMF Idle (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario) (SJVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (Bakersfield Layover)	0.0	0.7	0.5	0.0	0.0	0.0	197	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	33
Future No Project, 8 trains (@ACE Merced LMF)	0.0	0.3	0.4	0.0	0.0	0.0	155	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.3	0.4	0.0	0.0	0.0	155	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Future Cumulative No Project, 12 trains (@ACE Merced LMF)	0.0	0.3	0.3	0.0	0.0	0.0	124	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Future Cumulative Project, 12 trains (@ACE Merced LMF)	0.0	0.3	0.3	0.0	0.0	0.0	124	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Relative to Existing																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	-0.4	-0.1	0.0	0.0	0.0	-42	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-7	0.0	0.0	-7
Future Project, 12 trains (@ACE Merced LMF)	0.0	-0.5	-0.2	0.0	0.0	0.0	-73	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-12	0.0	0.0	-12
Relative to No Build																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Station Idle (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario) (SJVAB)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (@ existing Merced Station)	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	5
Future No Project, 8 trains (@ existing Merced Station)	0.0	0.2	0.3	0.0	0.0	0.0	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Future Project, 8 trains (@ new Merced Station)	0.0	0.2	0.3	0.0	0.0	0.0	103	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Future Cumulative No Project, 12 trains (@ existing Merced Station)	0.0	0.2	0.2	0.0	0.0	0.0	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Future Cumulative Project, 12 trains (@ new Merced Station)	0.0	0.2	0.2	0.0	0.0	0.0	83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Relative to Existing																			
Future Project, 8 trains (@ new Merced Station)	0.0	0.1	0.2	0.0	0.0	0.0	70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12	0.0	0.0	12
Future Project, 12 trains (@ new Merced Station)	0.0	0.0	0.1	0.0	0.0	0.0	50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8	0.0	0.0	8
Relative to No Build																			
Future Project, 8 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SJVAB Locomotive Movement (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	3.3	78.8	100.9	1.2	1.1	0.4	38,701	3.0	1.0	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Future Project, 8 trains	3.3	78.8	100.9	1.2	1.1	0.4	38,701	3.0	1.0	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Future Cumulative No Project, 12 trains	2.7	64.9	83.1	1.0	0.9	0.3	31,854	2.5	0.8	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Future Cumulative Project, 12 trains	2.7	64.9	83.1	1.0	0.9	0.3	31,854	2.5	0.8	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Relative to Existing																			
Future Project, 8 trains	-14.6	-448.4	-270.5	-7.1	-6.9	-1.0	-103,720	-8.1	-2.6	-2.7	-81.8	-49.4	-1.3	-1.3	-0.2	-17,172	-1.3	-0.4	-17,336
Future Cumulative Project, 12 trains	-15.2	-462.4	-288.3	-7.3	-7.1	-1.0	-110,567	-8.7	-2.8	-2.8	-84.4	-52.6	-1.3	-1.3	-0.2	-18,306	-1.4	-0.5	-18,480
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	1.6	38.1	48.8	0.6	0.6	0.2	18,719	1.5	0.5	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Future Project, 8 trains	1.6	38.1	48.8	0.6	0.6	0.2	18,719	1.5	0.5	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Future Cumulative No Project, 12 trains	1.1	25.0	32.0	0.4	0.4	0.1	12,256	1.0	0.3	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Future Cumulative Project, 12 trains	1.1	25.0	32.0	0.4	0.4	0.1	12,256	1.0	0.3	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Relative to Existing																			
Future Project, 8 trains	-1.8	-61.0	-21.0	-1.0	-0.9	-0.1	-8,050	-0.6	-0.2	-0.3	-11.1	-3.8	-0.2	-0.2	0.0	-1,333	-0.1	0.0	-1,345
Future Cumulative Project, 12 trains	-2.3	-74.1	-37.8	-1.2	-1.1	-0.1	-14,512	-1.1	-0.4	-0.4	-13.5	-6.9	-0.2	-0.2	0.0	-2,403	-0.2	-0.1	-2,426
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.4	10.2	13.0	0.2	0.1	0.0	4,984	0.4	0.1	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Future Project, 8 trains	0.4	10.2	13.0	0.2	0.1	0.0	4,984	0.4	0.1	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Future Cumulative No Project, 12 trains	0.7	16.4	20.9	0.2	0.2	0.1	8,031	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Future Cumulative Project, 12 trains	0.7	16.4	20.9	0.2	0.2	0.1	8,031	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Relative to Existing																			
Future Project, 8 trains	-0.2	-7.0	0.9	-0.1	-0.1	0.0	350	0.0	0.0	0.0	-1.3	0.2	0.0	0.0	0.0	58	0.0	0.0	59
Future Cumulative Project, 12 trains	0.1	-0.8	8.9	0.0	0.0	0.0	3,398	0.3	0.1	0.0	-0.1	1.6	0.0	0.0	0.0	563	0.0	0.0	568
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Total Locomotive (WITH Hydrogen Variant Full Hydrogen Deployment Scenario) (SJVAB, SFBAAB, and SVAB)

	Pounds per day								Tons per year						Metric tons per year				Gallons DSL
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	
Existing	21.9	644.4	453.9	10.1	9.8	1.6	174,052	13.6	4.4	4.0	117.6	82.8	1.8	1.8	0.3	28,816	2.3	0.7	29,091	2,822,357
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Relative to Existing																				
Future Project, 8 trains	-21.9	-644.4	-453.9	-10.1	-9.8	-1.6	-174,052	-13.6	-4.4	-4.0	-117.6	-82.8	-1.8	-1.8	-0.3	-28,816	-2.3	-0.7	-29,091	-2,822,357
Future Cumulative Project, 12 trains	-21.9	-644.4	-453.9	-10.1	-9.8	-1.6	-174,052	-13.6	-4.4	-4.0	-117.6	-82.8	-1.8	-1.8	-0.3	-28,816	-2.3	-0.7	-29,091	-2,822,357
Relative to No Build																				
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0	0

Locomotive Movement (WITH Hydrogen Variant Full Hydrogen Deployment Scenario) (SJVAB, SFBAAB, and SVAB)

	Pounds per day								Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (to Bakersfield)	21.9	643.5	453.3	10.1	9.8	1.6	173,822	13.6	4.4	4.0	117.4	82.7	1.8	1.8	0.3	28,778	2.3	0.7	29,053
Future No Project, 8 trains (to existing Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains (to existing Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains (to new Merced Station)	-21.9	-643.5	-453.3	-10.1	-9.8	-1.6	-173,822	-13.6	-4.4	-4.0	-117.4	-82.7	-1.8	-1.8	-0.3	-28,778	-2.3	-0.7	-29,053
Future Project, 12 trains (to new Merced Station)	-21.9	-643.5	-453.3	-10.1	-9.8	-1.6	-173,822	-13.6	-4.4	-4.0	-117.4	-82.7	-1.8	-1.8	-0.3	-28,778	-2.3	-0.7	-29,053
Relative to No Build																			
Future Project, 8 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (to new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

LMF Idle (WITH Hydrogen Variant Full Hydrogen Deployment Scenario) (SJVAB)

	Pounds per day								Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (Bakersfield Layover)	0.0	0.7	0.5	0.0	0.0	0.0	197	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	33
Future No Project, 8 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	-0.7	-0.5	0.0	0.0	0.0	-197	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-33	0.0	0.0	-33
Future Project, 12 trains (@ACE Merced LMF)	0.0	-0.7	-0.5	0.0	0.0	0.0	-197	0.0	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	-33	0.0	0.0	-33
Relative to No Build																			
Future Project, 8 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ACE Merced LMF)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Station Idle (WITH Hydrogen Variant Full Hydrogen Deployment Scenario) (SJVAB)

	Pounds per day								Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing (@ existing Merced Station)	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	5
Future No Project, 8 trains (@ existing Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains (@ existing Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains (@ new Merced Station)	0.0	-0.1	-0.1	0.0	0.0	0.0	-33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5	0.0	0.0	-5
Future Project, 12 trains (@ new Merced Station)	0.0	-0.1	-0.1	0.0	0.0	0.0	-33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-5	0.0	0.0	-5
Relative to No Build																			
Future Project, 8 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 12 trains (@ new Merced Station)	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SJVAB Locomotive Movement (WITH Hydrogen Variant Full Hydrogen Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-17.9	-527.3	-371.4	-8.3	-8.0	-1.3	-142,421	-11.2	-3.6	-3.3	-96.2	-67.8	-1.5	-1.5	-0.2	-23,579	-1.8	-0.6	-23,804
Future Cumulative Project, 12 trains	-17.9	-527.3	-371.4	-8.3	-8.0	-1.3	-142,421	-11.2	-3.6	-3.3	-96.2	-67.8	-1.5	-1.5	-0.2	-23,579	-1.8	-0.6	-23,804
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (WITH Hydrogen Variant Full Hydrogen Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-3.4	-99.1	-69.8	-1.6	-1.5	-0.2	-26,768	-2.1	-0.7	-0.6	-18.1	-12.7	-0.3	-0.3	0.0	-4,432	-0.3	-0.1	-4,474
Future Cumulative Project, 12 trains	-3.4	-99.1	-69.8	-1.6	-1.5	-0.2	-26,768	-2.1	-0.7	-0.6	-18.1	-12.7	-0.3	-0.3	0.0	-4,432	-0.3	-0.1	-4,474
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (WITH Hydrogen Variant Full Hydrogen Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-0.6	-17.2	-12.1	-0.3	-0.3	0.0	-4,633	-0.4	-0.1	-0.1	-3.1	-2.2	0.0	0.0	0.0	-767	-0.1	0.0	-774
Future Cumulative Project, 12 trains	-0.6	-17.2	-12.1	-0.3	-0.3	0.0	-4,633	-0.4	-0.1	-0.1	-3.1	-2.2	0.0	0.0	0.0	-767	-0.1	0.0	-774
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

San Joaquins Locomotive Operating Hours (hours/day) (No Hydrogen Variant)

Condition	Tier 3	Tier 4	Total
Existing (to Bakersfield)	23.3	60.9	84.2
Future No Project, **8 trains** (to existing Merced Station)	0.0	44.7	44.7
Future Project, **8 trains** (to new Merced Station)	0.0	44.7	44.7
Future Cumulative No Project, **12 trains** (to existing Merced Station)	0.0	68.0	68.0
Future Cumulative Project, **12 trains** (to new Merced Station)	0.0	68.0	68.0

San Joaquins Locomotive LMF Idle-Hours (hour/day) (No Hydrogen Variant)

Condition	Tier 3	Tier 4	Total
Existing (Bakersfield Layover)	3.0	7.5	10.5
Future No Project, **8 trains** (@ACE Merced LMF)	0.0	12.0	12.0
Future Project, **8 trains** (@ACE Merced LMF)	0.0	12.0	12.0
Future Cumulative No Project, **12 trains** (@ACE Merced LMF)	0.0	18.0	18.0
Future Cumulative Project, **12 trains** (@ACE Merced LMF)	0.0	18.0	18.0

San Joaquins Locomotive Station Idle-Hours (hour/day) (No Hydrogen Variant)

Condition	Tier 3	Tier 4	Total
Existing (@ existing Merced Station)	0.5	1.3	1.8
Future No Project, **8 trains** (@ existing Merced Station)	0.0	8.0	8.0
Future Project, **8 trains** (@ new Merced Station)	0.0	8.0	8.0
Future Cumulative No Project, **12 trains** (@ existing Merced Station)	0.0	12.0	12.0
Future Cumulative Project, **12 trains** (@ new Merced Station)	0.0	12.0	12.0

San Joaquins Locomotive Operating Hours (hours/day) (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

Tier 3	Tier 4	Hydrogen	Total
23.3	60.9	0.0	84.2
0.0	27.6	17.1	44.7
0.0	27.6	17.1	44.7
0.0	23.0	45.0	68.0
0.0	23.0	45.0	68.0

San Joaquins Locomotive LMF Idle-Hours (hour/day) (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

Tier 3	Tier 4	Hydrogen	Total
3.0	7.5	0.0	10.5
0.0	7.5	4.5	12.0
0.0	7.5	4.5	12.0
0.0	6.0	12.0	18.0
0.0	6.0	12.0	18.0

San Joaquins Locomotive Station Idle-Hours (hour/day) (WITH Hydrogen Variant Limited Hydrogen Deployment Scenario))

Tier 3	Tier 4	Hydrogen	Total
0.5	1.3	0.0	1.8
0.0	5.0	3.0	8.0
0.0	5.0	3.0	8.0
0.0	4.0	8.0	12.0
0.0	4.0	8.0	12.0

*Full hydrogen deployment scenario assumes total hours shown in the tables above would be hydrogen. No Tier 4 hours for the project Variants.

Line-Haul Emission Factors (g/bhp-hr)

Engine Tier	HC	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O
Uncontrolled	0.48	0.51	13.00	1.28	0.32	0.31	0.005	491	0.038	0.013
Tier 0	0.48	0.51	8.60	1.28	0.32	0.31	0.005	491	0.038	0.013
Tier 0+	0.30	0.32	7.20	1.28	0.20	0.19	0.005	491	0.038	0.013
Tier 1	0.47	0.49	6.70	1.28	0.32	0.31	0.005	491	0.038	0.013
Tier 1+	0.29	0.31	6.70	1.28	0.20	0.19	0.005	491	0.038	0.013
Tier 2	0.26	0.27	4.95	1.28	0.18	0.17	0.005	491	0.038	0.013
Tier 2+	0.13	0.14	4.95	1.28	0.08	0.08	0.005	491	0.038	0.013
Tier 3	0.13	0.14	4.95	1.28	0.08	0.08	0.005	491	0.038	0.013
Tier 4	0.04	0.04	1.00	1.28	0.02	0.01	0.005	491	0.038	0.013

Sources: EPA 2009; EPA 2023

ROG/HC	1.053	*EPA 2009 (page 4)*
PM2.5/PM10	0.97	*EPA 2009 (page 4)*
Sulfur content (ppm)	15	*EPA 2016*
Fuel density (g/gal)	3200	*EPA 2009 (page 5)*
Fraction SO2	97.8%	*EPA 2009 (page 5)*
Molecular weight	2	*EPA 2009 (page 5)*
Bhphr-gal	20.8	*EPA 2009 (page 3)*
SO2 (g/gal)	0.09	Calculated
g/gal CO2 diesel	10210	*EPA 2023 (Table 2)*
g/gal CH4 diesel	0.8	*EPA 2023 (Table 5)*
g/gal N2O diesel	0.26	*EPA 2023 (Table 5)*
pounds/gram	0.0022046	
metric ton/pound	0.0004536	
ton/pound	0.0005	
CH4 GWP	25	AR4
N2O GWP	298	AR4
Diesel conversion	10.21	kg CO2/gal DSL Climate Registry 2023
kg per metric ton	1000	

Section 2. Operations

Presents the model outputs and calculations for the operational emissions analyses for the no Project, Project, and variant analyses. The section is divided into seven subsections.

Section 2.1. CalEEMod Operations

Presents the CalEEMod model outputs for station and maintenance facility operations. CalEEMod was used to quantify emissions from utility consumption, area sources (e.g., building upkeep), mobile sources (e.g., employee trips), and stationary sources (e.g., generators). Outputs are presented for existing (2022), opening (2032), and horizon (2040) year conditions. The opening year and horizon year conditions include outputs for the no Project, Project, and H1 Variant under the 8 train and 12 train scenarios.

Section 2.1.1 Existing (2022) CalEEMod Outputs

MITC Existing Station Custom Report

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5.13.1. Unmitigated

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC Existing Station
Operational Year	2022
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31331834904044, -120.51019268896091
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	7.00	1000sqft	3.80	70,003	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	1.67	0.11	0.71	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	2.94	198	201	0.30	0.01	0.61	212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	1.66	0.12	0.59	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	2.94	188	191	0.31	0.01	0.02	202
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	1.64	0.08	0.43	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	2.94	153	156	0.30	0.01	0.19	166
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.30	0.02	0.08	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.49	25.4	25.9	0.05	< 0.005	0.03	27.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.08	0.11	0.71	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	138	138	0.01	0.01	0.61	142
Area	—	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	59.9	59.9	< 0.005	< 0.005	—	60.2

Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Total	0.08	1.67	0.11	0.71	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	2.94	198	201	0.30	0.01	0.61	212
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.12	0.59	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	—	128	128	0.01	0.01	0.02	131
Area	—	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Total	0.08	1.66	0.12	0.59	< 0.005	< 0.005	0.10	0.10	< 0.005	0.02	0.03	2.94	188	191	0.31	0.01	0.02	202
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.06	0.05	0.08	0.43	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	93.4	93.4	< 0.005	0.01	0.19	95.6
Area	—	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Total	0.06	1.64	0.08	0.43	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	2.94	153	156	0.30	0.01	0.19	166
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.08	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.5	15.5	< 0.005	< 0.005	0.03	15.8
Area	—	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9.92	9.92	< 0.005	< 0.005	—	9.97
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.49	0.00	0.49	0.05	0.00	—	1.70
Total	0.01	0.30	0.02	0.08	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.49	25.4	25.9	0.05	< 0.005	0.03	27.5

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Total	—	—	—	—	—	—	—	—	—	—	—	—	59.9	59.9	< 0.005	< 0.005	—	60.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	9.92	9.92	< 0.005	< 0.005	—	9.97
Total	—	—	—	—	—	—	—	—	—	—	—	—	9.92	9.92	< 0.005	< 0.005	—	9.97

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Total	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Total	—	—	—	—	—	—	—	—	—	—	—	2.94	0.00	2.94	0.29	0.00	—	10.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.49	0.00	0.49	0.05	0.00	—	1.70
Total	—	—	—	—	—	—	—	—	—	—	—	0.49	0.00	0.49	0.05	0.00	—	1.70

5. Activity Data

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
Total all Land Uses	14.0	0.00	0.00	3,650	134	0.00	0.00	34,936

5.10. Operational Area Sources

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	105,005	35,002	—

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)
Unrefrigerated Warehouse-No Rail	54,500	401	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)
Unrefrigerated Warehouse-No Rail	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	5.46	—

Section 2.1.2 Opening (2032) CalEEMod Outputs

MITC 8 Train Station and LMF Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,317	1,340	2.39	0.03	0.50	1,409
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,300	1,323	2.39	0.03	0.01	1,392
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	23.2	624	647	2.36	0.02	0.15	713
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	103	107	0.39	< 0.005	0.03	118

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,317	1,340	2.39	0.03	0.50	1,409
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,300	1,323	2.39	0.03	0.01	1,392
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	23.2	624	647	2.36	0.02	0.15	713
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	103	107	0.39	< 0.005	0.03	118

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

MITC 8 Train Station and LMF No Project Custom Report

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5.13.1. Unmitigated

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5.15.1. Unmitigated

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF v3
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,346	1,369	2.39	0.03	0.50	1,438
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,329	1,352	2.39	0.03	0.01	1,421
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	23.2	653	677	2.37	0.02	0.15	742
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	108	112	0.39	< 0.005	0.03	123

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,346	1,369	2.39	0.03	0.50	1,438
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,329	1,352	2.39	0.03	0.01	1,421
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	23.2	653	677	2.37	0.02	0.15	742
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.8	75.8	0.01	< 0.005	—	76.1

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	108	112	0.39	< 0.005	0.03	123

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	424,500	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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

MITC 8 Train Station and LMF H2 Custom Report

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5.13.1. Unmitigated

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF v2
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,319	1,343	2.51	0.03	0.50	1,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,302	1,327	2.51	0.03	0.01	1,399
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	626	651	2.48	0.02	0.15	720
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.02	104	108	0.41	< 0.005	0.03	119

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,319	1,343	2.51	0.03	0.50	1,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,302	1,327	2.51	0.03	0.01	1,399
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	626	651	2.48	0.02	0.15	720
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.02	104	108	0.41	< 0.005	0.03	119

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Total	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,698,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

MITC 12 Train Station and LMF Custom Report

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5.13.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,317	1,341	2.51	0.03	0.50	1,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,300	1,324	2.51	0.03	0.01	1,396
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	624	649	2.48	0.02	0.15	717
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	103	107	0.41	< 0.005	0.03	119

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,317	1,341	2.51	0.03	0.50	1,413
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,300	1,324	2.51	0.03	0.01	1,396
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	624	649	2.48	0.02	0.15	717
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	103	107	0.41	< 0.005	0.03	119

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

MITC 12 Train Station and LMF No Project Custom Report

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5.13.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF v3
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,346	1,370	2.51	0.03	0.50	1,442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,329	1,354	2.51	0.03	0.01	1,425
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	653	678	2.48	0.02	0.15	746
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	108	112	0.41	< 0.005	0.03	124

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,346	1,370	2.51	0.03	0.50	1,442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,329	1,354	2.51	0.03	0.01	1,425
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	24.3	653	678	2.48	0.02	0.15	746
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.8	75.8	0.01	< 0.005	—	76.1

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	108	112	0.41	< 0.005	0.03	124

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	424,500	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

MITC 12 Train Station and LMF Hydrogen Custom Report

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5.13.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF
Operational Year	2032
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.19

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,319	1,345	2.62	0.03	0.50	1,420
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,302	1,328	2.63	0.03	0.01	1,403
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	25.5	626	652	2.60	0.02	0.15	724
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.22	104	108	0.43	< 0.005	0.03	120

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.11	0.10	0.13	0.83	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	239	239	0.01	0.01	0.50	244
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.49	6.28	5.78	4.05	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,319	1,345	2.62	0.03	0.50	1,420
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.09	0.14	0.70	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	222	222	0.01	0.01	0.01	227
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.48	6.27	5.79	3.92	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,302	1,328	2.63	0.03	0.01	1,403
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.06	0.10	0.50	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	162	162	0.01	0.01	0.15	165
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.13	5.04	0.36	0.66	< 0.005	0.01	0.14	0.16	0.01	0.04	0.05	25.5	626	652	2.60	0.02	0.15	724
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.02	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	26.8	26.8	< 0.005	< 0.005	0.03	27.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.07	0.12	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.22	104	108	0.43	< 0.005	0.03	120

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Total	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

5.10. Operational Area Sources

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	325,500	108,500	—

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,698,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

Section 2.1.3 Horizon (2040) CalEEMod Outputs

MITC 8 Train Station and LMF Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF Project
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,292	1,315	2.39	0.03	0.15	1,383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,276	1,300	2.39	0.03	< 0.005	1,367
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	23.2	607	630	2.36	0.02	0.04	695
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	100	104	0.39	< 0.005	0.01	115

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,292	1,315	2.39	0.03	0.15	1,383
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,276	1,300	2.39	0.03	< 0.005	1,367
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	23.2	607	630	2.36	0.02	0.04	695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	100	104	0.39	< 0.005	0.01	115

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Station + LMF
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team
Operations: Solid Waste	Per engineering team

MITC 8 Train Station and LMF No Project Custom Report

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5.15.1. Unmitigated

5.16. Stationary Sources

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF No Project
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,321	1,344	2.39	0.03	0.15	1,412
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,306	1,329	2.39	0.03	< 0.005	1,397
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	23.2	636	659	2.36	0.02	0.04	724
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	105	109	0.39	< 0.005	0.01	120

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,321	1,344	2.39	0.03	0.15	1,412
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	23.2	1,306	1,329	2.39	0.03	< 0.005	1,397
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	23.2	636	659	2.36	0.02	0.04	724
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.8	75.8	0.01	< 0.005	—	76.1

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	3.83	105	109	0.39	< 0.005	0.01	120

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	424,500	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Station + LMF
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team
Operations: Solid Waste	Per engineering team

MITC 8 Train Station and LMF H1 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 8 Train Station and LMF H1
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.31317599882283, -120.51057581022366
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,294	1,318	2.51	0.03	0.15	1,390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,278	1,303	2.51	0.03	< 0.005	1,374
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	609	633	2.48	0.02	0.04	702
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.02	101	105	0.41	< 0.005	0.01	116

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,294	1,318	2.51	0.03	0.15	1,390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,278	1,303	2.51	0.03	< 0.005	1,374
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	609	633	2.48	0.02	0.04	702
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Waste	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.02	101	105	0.41	< 0.005	0.01	116

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Total	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Total	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.10	0.00	—	73.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

Total	—	—	—	—	—	—	—	—	—	—	—	3.49	0.00	3.49	0.35	0.00	—	12.2

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,698,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	39.1	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Station + LMF
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team (includes water for hydrogen)
Operations: Solid Waste	Per engineering team

MITC 12 Train Station and LMF Project Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF Project
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,292	1,316	2.50	0.03	0.15	1,387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,276	1,301	2.51	0.03	< 0.005	1,371
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	607	631	2.48	0.02	0.04	699
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	100	105	0.41	< 0.005	0.01	116

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,292	1,316	2.50	0.03	0.15	1,387
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,276	1,301	2.51	0.03	< 0.005	1,371
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	607	631	2.48	0.02	0.04	699
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	100	105	0.41	< 0.005	0.01	116

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Per engineering team
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team
Operations: Solid Waste	Per engineering team

MITC 12 Train Station and LMF No Project Custom Report

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5.15.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF No Project
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,321	1,345	2.51	0.03	0.15	1,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,306	1,330	2.51	0.03	< 0.005	1,401
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	636	660	2.48	0.02	0.04	728
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	105	109	0.41	< 0.005	0.01	121

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460

Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,321	1,345	2.51	0.03	0.15	1,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	24.3	1,306	1,330	2.51	0.03	< 0.005	1,401
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	458	458	0.04	< 0.005	—	460
Water	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	24.3	636	660	2.48	0.02	0.04	728
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	75.8	75.8	0.01	< 0.005	—	76.1

Water	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.03	105	109	0.41	< 0.005	0.01	121

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Total	—	—	—	—	—	—	—	—	—	—	—	—	454	454	0.04	< 0.005	—	456
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	75.1	75.1	0.01	< 0.005	—	75.5

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Total	—	—	—	—	—	—	—	—	—	—	—	2.10	3.83	5.93	0.22	0.01	—	12.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13
Total	—	—	—	—	—	—	—	—	—	—	—	0.35	0.63	0.98	0.04	< 0.005	—	2.13

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	424,500	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,098,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Per engineering team
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team
Operations: Solid Waste	Per engineering team

MITC 12 Train Station and LMF H1 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MITC 12 Train Station and LMF H1
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	23.4
Location	37.3132406948541, -120.51102746348948
County	Merced
City	Merced
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2302
EDFZ	14
Electric Utility	Merced Irrigation District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

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
Unrefrigerated Warehouse-No Rail	217	1000sqft	56.0	217,000	0.00	0.00	—	—

2. Emissions Summary

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,294	1,319	2.62	0.03	0.15	1,394
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,278	1,304	2.62	0.03	< 0.005	1,378
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	25.5	609	635	2.60	0.02	0.04	706
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.22	101	105	0.43	< 0.005	0.01	117

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.08	0.07	0.10	0.69	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	214	214	0.01	0.01	0.15	218
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431

Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.47	6.26	5.75	3.91	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,294	1,319	2.62	0.03	0.15	1,394
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.07	0.07	0.11	0.57	< 0.005	< 0.005	0.21	0.21	< 0.005	0.05	0.05	—	199	199	0.01	0.01	< 0.005	202
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.46	6.25	5.76	3.79	0.01	0.19	0.21	0.39	0.19	0.05	0.24	25.5	1,278	1,304	2.62	0.03	< 0.005	1,378
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.05	0.05	0.07	0.42	< 0.005	< 0.005	0.14	0.15	< 0.005	0.04	0.04	—	145	145	< 0.005	0.01	0.04	147
Area	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	428	428	0.04	< 0.005	—	431
Water	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Stationary	0.06	0.06	0.26	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	30.1	30.1	< 0.005	< 0.005	0.00	30.2
Total	0.12	5.03	0.34	0.57	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	25.5	609	635	2.60	0.02	0.04	706
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.01	0.01	0.01	0.08	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	24.0	24.0	< 0.005	< 0.005	0.01	24.4
Area	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	70.9	70.9	0.01	< 0.005	—	71.3

Water	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Waste	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9
Stationary	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.02	0.92	0.06	0.10	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	4.22	101	105	0.43	< 0.005	0.01	117

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehou Rail	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Total	—	—	—	—	—	—	—	—	—	—	—	—	425	425	0.04	< 0.005	—	427
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	70.3	70.3	0.01	< 0.005	—	70.7

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.75	3.75	< 0.005	< 0.005	—	3.76

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.62	0.62	< 0.005	< 0.005	—	0.62

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	4.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	4.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	0.85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Total	—	—	—	—	—	—	—	—	—	—	—	3.25	5.92	9.17	0.33	0.01	—	19.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30
Total	—	—	—	—	—	—	—	—	—	—	—	0.54	0.98	1.52	0.06	< 0.005	—	3.30

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Total	—	—	—	—	—	—	—	—	—	—	—	22.2	0.00	22.2	2.22	0.00	—	77.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

Total	—	—	—	—	—	—	—	—	—	—	—	3.68	0.00	3.68	0.37	0.00	—	12.9

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Total	1.39	1.26	5.64	3.22	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	646	646	0.03	0.01	0.00	648
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Emergency Generato	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99
Total	0.01	0.01	0.05	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	4.98	4.98	< 0.005	< 0.005	0.00	4.99

5. Activity Data

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
Total all Land Uses	31.0	0.00	0.00	8,082	287	0.00	0.00	74,825

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	325,500	108,500	—

5.10.3. Landscape Equipment

Equipment Type	Fuel Type	Number Per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

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)
Unrefrigerated Warehouse-No Rail	397,250	390	0.0330	0.0040	11,700

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	1,698,300	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	41.2	—

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

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
Emergency Generator	Diesel	1.00	1.00	17.0	769	0.73

8. User Changes to Default Data

Screen	Justification
Land Use	Per engineering team
Operations: Energy Use	Per engineering team
Operations: Water and Waste Water	Per engineering team
Operations: Solid Waste	Per engineering team

Section 2.2. San Joaquins Operations

Presents emissions calculations and assumptions for San Joaquins operation under existing (2022), opening (2032), and horizon (2040) year conditions. Movement emissions were quantified based on daily San Joaquins operating hours and emission factors from USEPA. Ilding emissions were quantified based on daily idling time at stations and the maintenance facility. Existing conditions assume use of diesel locomotives. The no Project and Project conditions assume use of renewable diesel locomotives. The project Variant conditions assume use of hydrogen and renewable diesel locomotives.

SJVAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	5.4	127.8	163.6	1.9	1.9	0.6	62,754	4.9	1.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Future Project, 8 trains	5.4	127.8	163.6	1.9	1.9	0.6	62,754	4.9	1.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Future Cumulative No Project, 12 trains	8.1	191.7	245.3	2.9	2.8	0.9	94,086	7.4	2.4	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Future Cumulative Project, 12 trains	8.1	191.7	245.3	2.9	2.8	0.9	94,086	7.4	2.4	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Relative to Existing																			
Future Project, 8 trains	-12.5	-399.4	-207.7	-6.3	-6.1	-0.7	-79,666	-6.2	-2.0	-2.3	-72.9	-37.9	-1.2	-1.1	-0.1	-13,190	-1.0	-0.3	-13,316
Future Cumulative Project, 12 trains	-9.8	-335.6	-126.0	-5.4	-5.2	-0.4	-48,335	-3.8	-1.2	-1.8	-61.2	-23.0	-1.0	-1.0	-0.1	-8,002	-0.6	-0.2	-8,079
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	2.6	61.8	79.1	0.9	0.9	0.3	30,353	2.4	0.8	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073
Future Project, 8 trains	2.6	61.8	79.1	0.9	0.9	0.3	30,353	2.4	0.8	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073
Future Cumulative No Project, 12 trains	3.1	73.7	94.4	1.1	1.1	0.3	36,201	2.8	0.9	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,051
Future Cumulative Project, 12 trains	3.1	73.7	94.4	1.1	1.1	0.3	36,201	2.8	0.9	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,051
Relative to Existing																			
Future Project, 8 trains	-0.8	-37.3	9.3	-0.6	-0.6	0.0	3,584	0.3	0.1	-0.1	-6.8	1.7	-0.1	-0.1	0.0	593	0.0	0.0	599
Future Cumulative Project, 12 trains	-0.3	-25.3	24.6	-0.4	-0.4	0.1	9,433	0.7	0.2	0.0	-4.6	4.5	-0.1	-0.1	0.0	1,562	0.1	0.0	1,577
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (no Hydrogen Variant)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.7	16.5	21.1	0.2	0.2	0.1	8,081	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,351
Future Project, 8 trains	0.7	16.5	21.1	0.2	0.2	0.1	8,081	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,351
Future Cumulative No Project, 12 trains	2.0	48.3	61.9	0.7	0.7	0.2	23,721	1.9	0.6	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,965
Future Cumulative Project, 12 trains	2.0	48.3	61.9	0.7	0.7	0.2	23,721	1.9	0.6	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,965
Relative to Existing																			
Future Project, 8 trains	0.1	-0.7	9.0	0.0	0.0	0.0	3,448	0.3	0.1	0.0	-0.1	1.6	0.0	0.0	0.0	571	0.0	0.0	576
Future Cumulative Project, 12 trains	1.5	31.2	49.8	0.5	0.4	0.2	19,088	1.5	0.5	0.3	5.7	9.1	0.1	0.1	0.0	3,160	0.2	0.1	3,190
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SJVAB Locomotive Movement (WITH Hydrogen Variant Limited Deployment)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	3.3	78.8	100.9	1.2	1.1	0.4	38,701	3.0	1.0	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Future Project, 8 trains	3.3	78.8	100.9	1.2	1.1	0.4	38,701	3.0	1.0	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Future Cumulative No Project, 12 trains	2.7	64.9	83.1	1.0	0.9	0.3	31,854	2.5	0.8	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Future Cumulative Project, 12 trains	2.7	64.9	83.1	1.0	0.9	0.3	31,854	2.5	0.8	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Relative to Existing																			
Future Project, 8 trains	-14.6	-448.4	-270.5	-7.1	-6.9	-1.0	-103,720	-8.1	-2.6	-2.7	-81.8	-49.4	-1.3	-1.3	-0.2	-17,172	-1.3	-0.4	-17,336
Future Cumulative Project, 12 trains	-15.2	-462.4	-288.3	-7.3	-7.1	-1.0	-110,567	-8.7	-2.8	-2.8	-84.4	-52.6	-1.3	-1.3	-0.2	-18,306	-1.4	-0.5	-18,480
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (WITH Hydrogen Variant Limited Deployment)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	1.6	38.1	48.8	0.6	0.6	0.2	18,719	1.5	0.5	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Future Project, 8 trains	1.6	38.1	48.8	0.6	0.6	0.2	18,719	1.5	0.5	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Future Cumulative No Project, 12 trains	1.1	25.0	32.0	0.4	0.4	0.1	12,256	1.0	0.3	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Future Cumulative Project, 12 trains	1.1	25.0	32.0	0.4	0.4	0.1	12,256	1.0	0.3	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Relative to Existing																			
Future Project, 8 trains	-1.8	-61.0	-21.0	-1.0	-0.9	-0.1	-8,050	-0.6	-0.2	-0.3	-11.1	-3.8	-0.2	-0.2	0.0	-1,333	-0.1	0.0	-1,345
Future Cumulative Project, 12 trains	-2.3	-74.1	-37.8	-1.2	-1.1	-0.1	-14,512	-1.1	-0.4	-0.4	-13.5	-6.9	-0.2	-0.2	0.0	-2,403	-0.2	-0.1	-2,426
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (WITH Hydrogen Variant Limited Deployment)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.4	10.2	13.0	0.2	0.1	0.0	4,984	0.4	0.1	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Future Project, 8 trains	0.4	10.2	13.0	0.2	0.1	0.0	4,984	0.4	0.1	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Future Cumulative No Project, 12 trains	0.7	16.4	20.9	0.2	0.2	0.1	8,031	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Future Cumulative Project, 12 trains	0.7	16.4	20.9	0.2	0.2	0.1	8,031	0.6	0.2	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Relative to Existing																			
Future Project, 8 trains	-0.2	-7.0	0.9	-0.1	-0.1	0.0	350	0.0	0.0	0.0	-1.3	0.2	0.0	0.0	0.0	58	0.0	0.0	59
Future Cumulative Project, 12 trains	0.1	-0.8	8.9	0.0	0.0	0.0	3,398	0.3	0.1	0.0	-0.1	1.6	0.0	0.0	0.0	563	0.0	0.0	568
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SJVAB Locomotive Movement (WITH Hydrogen Variant Full Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	17.9	527.3	371.4	8.3	8.0	1.3	142,421	11.2	3.6	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-17.9	-527.3	-371.4	-8.3	-8.0	-1.3	-142,421	-11.2	-3.6	-3.3	-96.2	-67.8	-1.5	-1.5	-0.2	-23,579	-1.8	-0.6	-23,804
Future Cumulative Project, 12 trains	-17.9	-527.3	-371.4	-8.3	-8.0	-1.3	-142,421	-11.2	-3.6	-3.3	-96.2	-67.8	-1.5	-1.5	-0.2	-23,579	-1.8	-0.6	-23,804
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SFBAAB Locomotive Movement (WITH Hydrogen Variant Full Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	3.4	99.1	69.8	1.6	1.5	0.2	26,768	2.1	0.7	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-3.4	-99.1	-69.8	-1.6	-1.5	-0.2	-26,768	-2.1	-0.7	-0.6	-18.1	-12.7	-0.3	-0.3	0.0	-4,432	-0.3	-0.1	-4,474
Future Cumulative Project, 12 trains	-3.4	-99.1	-69.8	-1.6	-1.5	-0.2	-26,768	-2.1	-0.7	-0.6	-18.1	-12.7	-0.3	-0.3	0.0	-4,432	-0.3	-0.1	-4,474
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

SVAB Locomotive Movement (WITH Hydrogen Variant Full Deployment Scenario)

	Pounds per day									Tons per year						Metric tons per year			
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**
Existing	0.6	17.2	12.1	0.3	0.3	0.0	4,633	0.4	0.1	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Future No Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative No Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Relative to Existing																			
Future Project, 8 trains	-0.6	-17.2	-12.1	-0.3	-0.3	0.0	-4,633	-0.4	-0.1	-0.1	-3.1	-2.2	0.0	0.0	0.0	-767	-0.1	0.0	-774
Future Cumulative Project, 12 trains	-0.6	-17.2	-12.1	-0.3	-0.3	0.0	-4,633	-0.4	-0.1	-0.1	-3.1	-2.2	0.0	0.0	0.0	-767	-0.1	0.0	-774
Relative to No Build																			
Future Project, 8 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Future Cumulative Project, 12 trains	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0

Section 2.3. Bus Bridge Operation

Presents emissions calculations and assumptions for the bus bridge that would operate under future no Project conditions. Emissions were quantified using trip and VMT data from AECOM and calendar year average bus emission factors for Merced County obtained from EMFAC2021.

Bus Bridge Emissions (Future No Project) (SJVAB)

Assumption	No Build Scenario			
	2032 8RT	2040 8RT	2032 12RT	2040 12RT
Daily Bus Trip Needed	80	80	96	96
Daily VMT (mile)	88	88	106	106
Annual VMT (mile)	32,120	32,120	38,544	38,544

* Shuttle Bus Capacity is assumed to be 35 in this calculation.
Source: AECOM pers. comm.

Emissions (SJVAB)

Condition	Pounds per Day											Tons/Metric Tons per Year											Fuel	
	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	gal/yr	kWh/yr
No Project, 2032, 8 Trains	0.08	0.45	0.61	0.00	0.07	0.00	0.02	0.00	310.17	0.01	0.03	0.02	0.08	0.11	0.00	0.01	0.00	0.00	0.00	51.35	0.00	0.01	53.04	5,026	2,517
No Project, 2032, 12 Trains	0.10	0.54	0.74	0.00	0.08	0.00	0.02	0.00	372.20	0.01	0.04	0.02	0.10	0.13	0.00	0.02	0.00	0.00	0.00	61.62	0.00	0.01	63.65	6,031	3,020
No Project, 2040, 8 Trains	0.06	0.33	0.48	0.00	0.07	0.00	0.02	0.00	259.20	0.01	0.03	0.01	0.06	0.09	0.00	0.01	0.00	0.00	0.00	42.91	0.00	0.01	44.50	4,083	6,491
No Project, 2040, 12 Trains	0.07	0.40	0.57	0.00	0.08	0.00	0.02	0.00	311.05	0.01	0.04	0.01	0.07	0.10	0.00	0.02	0.00	0.00	0.00	51.50	0.00	0.01	53.40	4,900	7,790

Emission Factors

Location	Year	Running (RUNEX, PMTW, PMBW) grams per mile											Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip									Fuel	
		ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM2.5 Ex	SO2	CO2	CH4	N2O	gal/mi	kWh/mi
Merced	2032	0.04	0.96	0.46	0.02	0.36	0.02	0.10	0.01	1436.30	0.01	0.14	0.43	1.51	2.98	0.00	0.00	0.00	178.70	0.03	0.04	0.16	0.08
Merced	2040	0.02	0.66	0.27	0.01	0.36	0.01	0.09	0.01	1186.27	0.01	0.13	0.33	1.14	2.42	0.00	0.00	0.00	164.76	0.02	0.03	0.13	0.20

Source: EMFAC2021, AP-42

Section 2.4. Connecting Bus Transit Operation

Presents emissions calculations and assumptions for connecting bus transit under existing (2022), opening (2032), and horizon (2040) year conditions. Emissions were quantified using trip and VMT data from AECOM and calendar year average bus emission factors for Merced County obtained from EMFAC2021.

Connecting Transit Emissions (SJVAB) (8 or 12 train scenarios)

	Merced Transpo Center								
	Merced Station Stops* per			Trips per			VMT per		
Condition	Weekday	Weekend	Annual	Weekday	Weekend	Annual	Weekday	Weekend	Annual
Existing (2022)	164	30	45,760	326	138	99,112	8,555	3,519	2,590,385
Future (2032, 2040) No Project	164	30	45,760	326	145	99,840	8,555	3,691	2,608,299
Future (2032, 2040) Project	0	0	0	326	145	99,840	8,555	3,691	2,608,299

* Elimination of the Merced Station stop would not materially change VMT since the number of trips and overall route milage would remain unchanged
Source: AECOM pers. comm.

Merced Station Emissions (SJVAB) (No change in trips or VMT; change in idle time at one stop)

Condition	Max (Weekday) Pounds per Day											Tons/Metric Tons per Year											Fuel	
	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	gal/yr	kWh/yr
Existing (2022)	0.01	0.09	0.12	0.00	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	3	n/a	n/a
Future (2032) No Project	0.01	0.06	0.11	0.00	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	2	n/a	n/a
Future (2040) No Project	0.01	0.04	0.11	0.00	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	n/a	n/a
Future (2032) Project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	2	n/a	n/a
Future (2040) Project	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0	n/a	n/a

Merced Transpo Center Emissions (SJVAB) (Additional Trips and VMT)

Condition	Max (Weekday) Pounds per Day											Tons/Metric Tons per Year											Fuel	
	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	gal/yr	kWh/yr
Existing (2022)	1.96	28.81	27.66	0.36	6.83	0.34	1.79	0.32	32,659	0.28	2.59	0.30	4.36	4.19	0.05	1.03	0.05	0.27	0.05	4,485	0.04	0.36	4,592	494,474	0
Future (2032) No Project	1.07	19.18	10.85	0.34	6.87	0.33	1.80	0.26	27,219	0.24	2.62	0.16	2.93	1.65	0.05	1.05	0.05	0.27	0.04	3,764	0.03	0.36	3,873	408,117	204,361
Future (2040) No Project	0.68	13.27	6.85	0.26	6.84	0.25	1.79	0.21	22,493	0.26	2.52	0.10	2.02	1.05	0.04	1.04	0.04	0.27	0.03	3,111	0.04	0.35	3,215	331,554	527,131
Future (2032) Project	1.07	19.18	10.85	0.34	6.87	0.33	1.80	0.26	27,219	0.24	2.62	0.16	2.93	1.65	0.05	1.05	0.05	0.27	0.04	3,764	0.03	0.36	3,873	408,117	204,361
Future (2040) Project	0.68	13.27	6.85	0.26	6.84	0.25	1.79	0.21	22,493	0.26	2.52	0.10	2.02	1.05	0.04	1.04	0.04	0.27	0.03	3,111	0.04	0.35	3,215	331,554	527,131

Total Emissions (SJVAB)

Condition	Max (Weekday) Pounds per Day											Tons/Metric Tons per Year											Fuel	
	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	CO2e	gal/yr	kWh/yr
Existing (2022)	1.97	28.90	27.77	0.36	6.83	0.34	1.79	0.32	32,679	0.28	2.59	0.30	4.38	4.20	0.05	1.03	0.05	0.27	0.05	4,488	0.04	0.36	4,595	494,474	0
Future (2032) No Project	1.08	19.25	10.96	0.34	6.87	0.33	1.80	0.26	27,236	0.24	2.62	0.16	2.93	1.67	0.05	1.05	0.05	0.27	0.04	3,766	0.03	0.36	3,875	408,117	204,361
Future (2040) No Project	0.69	13.32	6.97	0.26	6.84	0.25	1.79	0.21	22,509	0.26	2.52	0.10	2.02	1.05	0.04	1.04	0.04	0.27	0.03	3,111	0.04	0.35	3,215	331,554	527,131
Future (2032) Project	1.07	19.18	10.85	0.34	6.87	0.33	1.80	0.26	27,219	0.24	2.62	0.16	2.93	1.67	0.05	1.05	0.05	0.27	0.04	3,766	0.03	0.36	3,875	408,117	204,361
Future (2040) Project	0.68	13.27	6.85	0.26	6.84	0.25	1.79	0.21	22,493	0.26	2.52	0.10	2.02	1.05	0.04	1.04	0.04	0.27	0.03	3,111	0.04	0.35	3,215	331,554	527,131

Emission Factors

Location		Running (RUNEX, PMTW, PMBW) grams per mile											Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip										Fuel	
	Year	ROG	NOx	CO	PM10 Ex	PM10 D	PM2.5 Ex	PM2.5 D	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10 Ex	PM2.5 Ex	SO2	CO2	CH4	N2O	gal/mi	kWh/mi
Merced	2022	0.09	1.47	1.33	0.02	0.36	0.02	0.09	0.02	1725.50	0.01	0.14	0.47	1.49	3.63	0.00	0.00	0.00	157.87	0.04	0.04	0.19	0.00
Merced	2032	0.04	0.96	0.46	0.02	0.36	0.02	0.10	0.01	1436.30	0.01	0.14	0.43	1.51	2.98	0.00	0.00	0.00	178.70	0.03	0.04	0.16	0.08
Merced	2040	0.02	0.66	0.27	0.01	0.36	0.01	0.09	0.01	1186.27	0.01	0.13	0.33	1.14	2.42	0.00	0.00	0.00	164.76	0.02	0.03	0.13	0.20

Source: EMFAC2021

	IDLEX grams per idle-hour (for elimination of stops, but no change in trips)								
Year	ROG	NOx	CO	PM10 Ex	PM2.5 Ex	SO2	CO2	CH4	N2O
2022	3.25	30.64	38.86	0.02	0.02	0.06	6552.43	0.32	0.00
2032	2.80	20.51	37.92	0.02	0.02	0.05	5730.15	0.29	0.00
2040	2.66	14.33	37.17	0.01	0.01	0.05	5222.81	0.30	0.00

Source: EMFAC2021 PL

Section 2.5. Avoided Trips and VMT

Presents emissions calculations and assumptions for annual avoided VMT and trips under existing (2022), opening (2032), and horizon (2040) year conditions. Emissions were quantified using trip and VMT data from AECOM and regional (i.e., air basin) vehicle-weighted emission factors for light-duty automobile, light-duty truck, and medium-duty vehicles obtained from EMFAC2021.

Opening 2032 Total Avoided VMT and Trip Emissions (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	14.6	40.9	481.8	135.1	34.0	1.4	145,072	2.2	3.4	2.7	7.5	87.9	24.7	6.2	0.3	24,018	0.4	0.6	24,197	7,856	1,879
Opening (2032) No Project, 8 trains	28.8	66.4	1,197.0	622.3	155.5	5.1	517,772	4.2	8.4	5.3	12.1	218.5	113.6	28.4	0.9	85,723	0.7	1.4	86,154	28,047	27,196
Opening (2032) Project, 8 trains	32.0	76.5	1,382.5	720.5	180.1	5.9	599,443	4.8	9.7	5.8	14.0	252.3	131.5	32.9	1.1	99,244	0.8	1.6	99,741	32,477	31,467
Opening (2032) Cumulative No Project, 12 trains	43.5	100.2	1,809.9	937.4	234.3	7.7	780,827	6.4	12.6	7.9	18.3	330.3	171.1	42.8	1.4	129,275	1.1	2.1	129,925	42,293	40,813
Opening (2032) Cumulative Project, 12 trains	47.3	112.9	2,043.2	1,061.0	265.2	8.7	883,642	7.1	14.2	8.6	20.6	372.9	193.6	48.4	1.6	146,297	1.2	2.4	147,029	47,871	46,182
Relative to Existing																					
Opening (2032) Project, 8 trains	17.5	35.6	900.7	585.4	146.1	4.5	454,372	2.6	6.2	3.2	6.5	164.4	106.8	26.7	0.8	75,226	0.4	1.0	75,544	24,621	29,588
Opening (2032) Cumulative Project, 12 trains	32.8	72.0	1,561.4	925.8	231.2	7.3	738,571	4.9	10.8	6.0	13.1	285.0	169.0	42.2	1.3	122,279	0.8	1.8	122,832	40,015	44,303
Relative to No Build (2032)																					
Opening (2032) Project, 8 trains	3.2	10.1	185.5	98.2	24.5	0.8	81,671	0.6	1.3	0.6	1.8	33.8	17.9	4.5	0.1	13,521	0.1	0.2	13,587	4,430	4,271
Opening (2032) Cumulative Project, 12 trains	3.8	12.7	233.3	123.6	30.9	1.0	102,816	0.7	1.6	0.7	2.3	42.6	22.6	5.6	0.2	17,022	0.1	0.3	17,104	5,577	5,369

Opening 2032 SJVAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	12.2	34.6	406.4	110.9	27.9	1.2	120,142	1.9	2.9	2.2	6.3	74.2	20.2	5.1	0.2	19,891	0.3	0.5	20,040	6,504.2	1,306
Opening (2032) No Project, 8 trains	17.4	39.6	724.1	360.7	90.1	3.0	302,980	2.5	4.9	3.2	7.2	132.2	65.8	16.5	0.5	50,162	0.4	0.8	50,416	16,392.3	14,710
Opening (2032) Project, 8 trains	19.4	45.9	841.7	420.5	105.1	3.5	353,104	2.9	5.7	3.5	8.4	153.6	76.7	19.2	0.6	58,460	0.5	0.9	58,755	19,107.9	17,147
Opening (2032) Cumulative No Project, 12 trains	26.3	60.0	1,097.7	547.0	136.7	4.5	459,378	3.8	7.5	4.8	10.9	200.3	99.8	24.9	0.8	76,055	0.6	1.2	76,440	24,854.4	22,304
Opening (2032) Cumulative Project, 12 trains	28.7	67.9	1,244.5	621.8	155.4	5.2	522,110	4.2	8.5	5.2	12.4	227.1	113.5	28.4	0.9	86,441	0.7	1.4	86,877	28,253.5	25,355
Relative to Existing																					
Opening (2032) Project, 8 trains	7.2	11.3	435.3	309.6	77.2	2.3	232,962	1.0	2.9	1.3	2.1	79.4	56.5	14.1	0.4	38,569	0.2	0.5	38,715	12,604	15,841
Opening (2032) Cumulative Project, 12 trains	16.5	33.3	838.2	510.8	127.5	4.0	401,968	2.4	5.6	3.0	6.1	153.0	93.2	23.3	0.7	66,550	0.4	0.9	66,837	21,749	24,049
Relative to No Build (2032)																					
Opening (2032) Project, 8 trains	2.0	6.3	117.6	59.8	14.9	0.5	50,124	0.4	0.8	0.4	1.2	21.5	10.9	2.7	0.1	8,299	0.1	0.1	8,339	2,716	2,437
Opening (2032) Cumulative Project, 12 trains	2.4	7.9	146.8	74.8	18.7	0.6	62,732	0.4	1.0	0.4	1.4	26.8	13.7	3.4	0.1	10,386	0.1	0.2	10,436	3,399	3,050

Opening 2032 SFBAAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	1.9	5.3	62.3	20.6	5.2	0.2	21,013	0.3	0.5	0.4	1.0	11.4	3.8	0.9	0.0	3,479	0.1	0.1	3,503	1,139.4	524
Opening (2032) No Project, 8 trains	10.4	24.6	431.7	241.5	60.4	2.0	197,692	1.6	3.2	1.9	4.5	78.8	44.1	11.0	0.4	32,730	0.3	0.5	32,893	10,729.0	11,622
Opening (2032) Project, 8 trains	11.5	28.0	493.0	276.6	69.2	2.2	226,434	1.8	3.6	2.1	5.1	90.0	50.5	12.6	0.4	37,489	0.3	0.6	37,674	12,291.2	13,315
Opening (2032) Cumulative No Project, 12 trains	14.5	34.2	599.5	335.4	83.9	2.7	274,608	2.2	4.4	2.6	6.2	109.4	61.2	15.3	0.5	45,464	0.4	0.7	45,690	14,903.6	16,144
Opening (2032) Cumulative Project, 12 trains	15.7	38.4	674.3	378.4	94.6	3.1	309,723	2.4	4.9	2.9	7.0	123.1	69.1	17.3	0.6	51,278	0.4	0.8	51,531	16,812.3	18,212
Relative to Existing																					
Opening (2032) Project, 8 trains	9.6	22.8	430.7	256.0	64.0	2.0	205,421	1.5	3.1	1.7	4.2	78.6	46.7	11.7	0.4	34,010	0.2	0.5	34,171	11,152	12,791
Opening (2032) Cumulative Project, 12 trains	13.8	33.1	612.0	357.8	89.4	2.9	288,710	2.1	4.5	2.5	6.0	111.7	65.3	16.3	0.5	47,799	0.4	0.7	48,028	15,673	17,689
Relative to No Build (2032)																					
Opening (2032) Project, 8 trains	1.0	3.4	61.3	35.2	8.8	0.3	28,741	0.2	0.4	0.2	0.6	11.2	6.4	1.6	0.1	4,758	0.0	0.1	4,781	1,562	1,692
Opening (2032) Cumulative Project, 12 trains	1.2	4.2	74.8	43.0	10.7	0.3	35,115	0.2	0.5	0.2	0.8	13.6	7.8	2.0	0.1	5,814	0.0	0.1	5,841	1,909	2,068

Opening 2032 SVAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	0.4	1.1	13.1	3.6	0.9	0.0	3,917	0.1	0.1	0.1	0.2	2.4	0.7	0.2	0.0	648	0.0	0.0	653	212.1	49
Opening (2032) No Project, 8 trains	1.0	2.2	41.2	20.1	5.0	0.2	17,100	0.1	0.3	0.2	0.4	7.5	3.7	0.9	0.0	2,831	0.0	0.0	2,845	925.6	863
Opening (2032) Project, 8 trains	1.1	2.5	47.8	23.4	5.8	0.2	19,906	0.2	0.3	0.2	0.5	8.7	4.3	1.1	0.0	3,296	0.0	0.1	3,312	1,077.6	1,005
Opening (2032) Cumulative No Project, 12 trains	2.7	6.0	112.7	55.0	13.8	0.5	46,841	0.4	0.8	0.5	1.1	20.6	10.0	2.5	0.1	7,755	0.1	0.1	7,794	2,535.3	2,364
Opening (2032) Cumulative Project, 12 trains	2.9	6.6	124.4	60.8	15.2	0.5	51,810	0.4	0.8	0.5	1.2	22.7	11.1	2.8	0.1	8,578	0.1	0.1	8,621	2,804.8	2,615
Relative to Existing																					
Opening (2032) Project, 8 trains	0.7	1.5	34.7	19.8	4.9	0.2	15,989	0.1	0.2	0.1	0.3	6.3	3.6	0.9	0.0	2,647	0.0	0.0	2,659	866	956
Opening (2032) Cumulative Project, 12 trains	2.5	5.6	111.3	57.2	14.3	0.5	47,893	0.4	0.7	0.4	0.9	18.2	9.4	2.3	0.1	7,107	0.1	0.1	7,141	2,323	2,315
Relative to No Build (2032)																					
Opening (2032) Project, 8 trains	0.1	0.3	6.6	3.3	0.8	0.0	2,805	0.0	0.0	0.0	0.1	1.2	0.6	0.2	0.0	464	0.0	0.0	467	152	142
Opening (2032) Cumulative Project, 12 trains	0.2	0.6	11.6	5.8	1.5	0.0	4,969	0.0	0.1	0.0	0.1	2.1	1.1	0.3	0.0	823	0.0	0.0	827	269	251

Future 2040 Total Avoided VMT and Trip Emissions (SJVAB, SFBAAB, and SVAB)

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	14.6	40.9	481.8	135.1	34.0	1.4	145,072	2.2	3.4	2.7	7.5	87.9	24.7	6.2	0.3	24,018	0.4	0.6	24,197	7,856	1,879
Future (2040) No Project, 8 trains	23.2	52.2	1,133.9	682.1	170.0	5.1	519,643	3.4	7.8	4.2	9.5	206.9	124.5	31.0	0.9	86,033	0.6	1.3	86,432	28,144	35,477
Future (2040) Project, 8 trains	25.7	60.1	1,309.9	789.9	196.9	5.9	601,636	3.9	9.0	4.7	11.0	239.1	144.1	35.9	1.1	99,607	0.6	1.5	100,067	32,591	41,070
Future (2040) Cumulative No Project, 12 trains	34.9	78.7	1,712.6	1,027.1	256.0	7.7	782,978	5.1	11.8	6.4	14.4	312.5	187.4	46.7	1.4	129,631	0.8	1.9	130,233	42,404	53,357
Future (2040) Cumulative Project, 12 trains	37.8	88.6	1,933.9	1,162.7	289.9	8.8	886,233	5.7	13.3	6.9	16.2	352.9	212.2	52.9	1.6	146,726	0.9	2.2	147,403	48,004	60,405
Relative to Existing																					
Future (2040) Project, 8 trains	11.1	19.2	828.1	654.7	162.9	4.5	456,564	1.6	5.6	2.0	3.5	151.1	119.5	29.7	0.8	75,589	0.3	0.9	75,871	24,735	39,191
Future (2040) Cumulative Project, 12 trains	23.3	47.7	1,452.1	1,027.6	255.9	7.3	741,162	3.5	9.8	4.3	8.7	265.0	187.5	46.7	1.3	122,708	0.6	1.6	123,207	40,148	58,526
Relative to No Build (2040)																					
Future (2040) Project, 8 trains	2.5	7.9	176.0	107.8	26.9	0.8	81,993	0.5	1.2	0.5	1.4	32.1	19.7	4.9	0.1	13,575	0.1	0.2	13,635	4,447	5,593
Future (2040) Cumulative Project, 12 trains	3.0	9.9	221.3	135.6	33.8	1.0	103,255	0.6	1.5	0.5	1.8	40.4	24.8	6.2	0.2	17,095	0.1	0.2	17,171	5,600	7,047

Future 2040 SJVAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	12.2	34.6	406.4	110.9	27.9	1.2	120,142	1.9	2.9	2.2	6.3	74.2	20.2	5.1	0.2	19,891	0.3	0.5	20,040	6,504.2	1,306
Future (2040) No Project, 8 trains	13.7	30.4	679.2	395.4	98.6	3.0	301,574	2.0	4.5	2.5	5.5	124.0	72.2	18.0	0.5	49,929	0.3	0.8	50,161	16,311.4	19,992
Future (2040) Project, 8 trains	15.3	35.2	789.8	461.0	114.9	3.5	351,518	2.3	5.3	2.8	6.4	144.1	84.1	21.0	0.6	58,198	0.4	0.9	58,467	19,016.3	23,308
Future (2040) Cumulative No Project, 12 trains	20.7	46.0	1,029.5	599.5	149.4	4.5	457,198	3.0	6.9	3.8	8.4	187.9	109.4	27.3	0.8	75,694	0.5	1.1	76,047	24,729.1	30,310
Future (2040) Cumulative Project, 12 trains	22.5	51.8	1,162.7	678.7	169.1	5.1	517,491	3.3	7.8	4.1	9.5	212.2	123.9	30.9	0.9	85,676	0.5	1.3	86,073	27,995.2	34,313
Relative to Existing																					
Future (2040) Project, 8 trains	3.1	0.6	383.4	350.1	87.0	2.3	231,376	0.4	2.4	0.6	0.1	70.0	63.9	15.9	0.4	38,307	0.1	0.4	38,427	12,512	22,001
Future (2040) Cumulative Project, 12 trains	10.3	17.2	756.3	567.8	141.3	3.9	397,349	1.5	4.9	1.9	3.1	138.0	103.6	25.8	0.7	65,786	0.2	0.8	66,033	21,491	33,006
Relative to No Build (2040)																					
Future (2040) Project, 8 trains	1.6	4.8	110.6	65.6	16.3	0.5	49,944	0.3	0.7	0.3	0.9	20.2	12.0	3.0	0.1	8,269	0.0	0.1	8,306	2,705	3,315
Future (2040) Cumulative Project, 12 trains	1.8	5.8	133.2	79.2	19.7	0.6	60,293	0.3	0.9	0.3	1.1	24.3	14.5	3.6	0.1	9,982	0.1	0.1	10,026	3,266	4,003

Future 2040 SFBAAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	1.9	5.3	62.3	20.6	5.2	0.2	21,013	0.3	0.5	0.4	1.0	11.4	3.8	0.9	0.0	3,479	0.1	0.1	3,503	1,139.4	524
Future (2040) No Project, 8 trains	8.6	20.1	415.8	264.6	66.0	2.0	200,895	1.3	3.0	1.6	3.7	75.9	48.3	12.0	0.4	33,260	0.2	0.5	33,414	10,903.5	14,330
Future (2040) Project, 8 trains	9.5	22.9	475.0	303.2	75.6	2.3	230,121	1.5	3.4	1.7	4.2	86.7	55.3	13.8	0.4	38,099	0.2	0.6	38,274	12,492.2	16,418
Future (2040) Cumulative No Project, 12 trains	12.0	28.0	577.8	367.8	91.7	2.8	279,249	1.8	4.2	2.2	5.1	105.4	67.1	16.7	0.5	46,233	0.3	0.7	46,447	15,156.4	19,919
Future (2040) Cumulative Project, 12 trains	13.0	31.5	652.3	416.4	103.8	3.1	316,074	2.0	4.7	2.4	5.8	119.0	76.0	19.0	0.6	52,330	0.3	0.8	52,570	17,158.2	22,550
Relative to Existing																					
Future (2040) Project, 8 trains	7.6	17.7	412.6	282.5	70.4	2.1	209,109	1.2	3.0	1.4	3.2	75.3	51.6	12.9	0.4	34,620	0.2	0.5	34,771	11,353	15,894
Future (2040) Cumulative Project, 12 trains	11.1	26.3	590.0	395.8	98.7	2.9	295,062	1.7	4.2	2.0	4.8	107.7	72.2	18.0	0.5	48,851	0.3	0.7	49,067	16,019	22,026
Relative to No Build (2040)																					
Future (2040) Project, 8 trains	0.8	2.8	59.2	38.6	9.6	0.3	29,226	0.2	0.4	0.2	0.5	10.8	7.0	1.8	0.1	4,839	0.0	0.1	4,860	1,589	2,088
Future (2040) Cumulative Project, 12 trains	1.0	3.5	74.5	48.6	12.1	0.4	36,825	0.2	0.5	0.2	0.6	13.6	8.9	2.2	0.1	6,097	0.0	0.1	6,124	2,002	2,631

Future 2040 SVAB Avoided VMT and Trip Emissions

	Pounds per day									Tons per year						Metric tons per year				Fuel	
Option	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**ROG**	**NOX**	**CO**	**PM10**	**PM2.5**	**SO2**	**CO2**	**CH4**	**N2O**	**CO2e**	**Gal**	**kWh**
Existing (2022)	0.4	1.1	13.1	3.6	0.9	0.0	3,917	0.1	0.1	0.1	0.2	2.4	0.7	0.2	0.0	648	0.0	0.0	653	212.1	49
Future (2040) No Project, 8 trains	0.8	1.7	38.9	22.0	5.5	0.2	17,173	0.1	0.3	0.1	0.3	7.1	4.0	1.0	0.0	2,843	0.0	0.0	2,856	929.3	1,155
Future (2040) Project, 8 trains	0.9	2.0	45.1	25.7	6.4	0.2	19,996	0.1	0.3	0.2	0.4	8.2	4.7	1.2	0.0	3,311	0.0	0.0	3,326	1,082.3	1,345
Future (2040) Cumulative No Project, 12 trains	2.2	4.7	105.3	59.7	14.9	0.5	46,531	0.3	0.7	0.4	0.9	19.2	10.9	2.7	0.1	7,704	0.1	0.1	7,739	2,518.1	3,129
Future (2040) Cumulative Project, 12 trains	2.3	5.3	118.9	67.6	16.9	0.5	52,668	0.3	0.8	0.4	1.0	21.7	12.3	3.1	0.1	8,720	0.1	0.1	8,760	2,850.7	3,542
Relative to Existing																					
Future (2040) Project, 8 trains	0.5	0.9	32.0	22.1	5.5	0.2	16,080	0.1	0.2	0.1	0.2	5.8	4.0	1.0	0.0	2,662	0.0	0.0	2,673	870	1,296
Future (2040) Cumulative Project, 12 trains	1.9	4.2	105.8	64.0	16.0	0.5	48,751	0.3	0.7	0.3	0.7	16.8	10.2	2.6	0.1	7,055	0.0	0.1	7,086	2,306	3,080
Relative to No Build (2040)																					
Future (2040) Project, 8 trains	0.1	0.3	6.3	3.6	0.9	0.0	2,823	0.0	0.0	0.0	0.0	1.1	0.7	0.2	0.0	467	0.0	0.0	469	153	190
Future (2040) Cumulative Project, 12 trains	0.2	0.6	13.6	7.9	2.0	0.1	6,136	0.0	0.1	0.0	0.1	2.5	1.4	0.4	0.0	1,016	0.0	0.0	1,020	333	413

Daily Displacement Data for AQ/GHG Modeling

	Total Daily Displaced Auto Trips			
Scenario	SJVAB	SFBAAB	SVAB	Total
Existing (2022)	2,153	405	70	2,628
Opening (2032) No Project, 8 trains	6,053	4,097	339	10,489
Opening (2032) Project, 8 trains	6,589	4,383	368	11,340
Future (2040) No Project, 8 trains	6,670	4,513	374	11,558
Future (2040) Project, 8 trains	7,261	4,828	407	12,496
Opening (2032) Cumulative No Project, 12 trains	9,128	5,660	923	15,712
Opening (2032) Cumulative Project, 12 trains	9,737	5,991	958	16,687
Future (2040) Cumulative No Project, 12 trains	10,053	6,237	1,008	17,299
Future (2040) Cumulative Project, 12 trains	10,678	6,625	1,071	18,374

Source: AECOM

	Total Daily Displaced Auto VMT			
Scenario	SJVAB	SFBAAB	SVAB	Total
Existing (2022)	161,263	30,310	5,247	196,819
Opening (2032) No Project, 8 trains	525,660	355,767	29,427	910,854
Opening (2032) Project, 8 trains	612,742	407,569	34,261	1,054,572
Future (2040) No Project, 8 trains	576,727	390,268	32,359	999,354
Future (2040) Project, 8 trains	672,367	447,129	37,686	1,157,182
Opening (2032) Cumulative No Project, 12 trains	797,018	494,193	80,607	1,371,818
Opening (2032) Cumulative Project, 12 trains	906,020	557,486	89,174	1,552,680
Future (2040) Cumulative No Project, 12 trains	874,356	542,490	87,679	1,504,525
Future (2040) Cumulative Project, 12 trains	989,836	614,139	99,259	1,703,234

Source: AECOM

Weighted Emission Factors by Air Basin - LDA, LDT1, LDT2, MDV

		Running (RUNEX, PMTW, PMBW) grams per mile									Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip									Fuel	
Air Basin	Year	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	gal/mi	kWh/mi
SFBAAB	2022	0.01	0.07	0.88	0.31	0.08	0.00	313	0.00	0.01	1.12	0.34	3.97	0.00	0.00	0.00	81	0.09	0.04	0.04	0.02
SFBAAB	2032	0.01	0.03	0.52	0.31	0.08	0.00	251	0.00	0.00	0.71	0.21	2.31	0.00	0.00	0.00	64	0.05	0.03	0.03	0.03
SFBAAB	2040	0.00	0.02	0.46	0.31	0.08	0.00	233	0.00	0.00	0.57	0.18	1.85	0.00	0.00	0.00	58	0.04	0.03	0.03	0.04
SVAB	2022	0.02	0.09	1.08	0.31	0.08	0.00	337	0.00	0.01	1.33	0.38	4.32	0.00	0.00	0.00	85	0.10	0.04	0.04	0.01
SVAB	2032	0.01	0.03	0.61	0.31	0.08	0.00	263	0.00	0.00	0.84	0.22	2.44	0.00	0.00	0.00	66	0.05	0.03	0.03	0.03
SVAB	2040	0.00	0.02	0.52	0.31	0.08	0.00	240	0.00	0.00	0.65	0.19	1.88	0.00	0.00	0.00	59	0.04	0.03	0.03	0.04
SJVAB	2022	0.02	0.09	1.09	0.31	0.08	0.00	337	0.00	0.01	1.34	0.39	4.20	0.00	0.00	0.00	86	0.10	0.04	0.04	0.01
SJVAB	2032	0.01	0.03	0.60	0.31	0.08	0.00	261	0.00	0.00	0.82	0.22	2.33	0.00	0.00	0.00	66	0.05	0.03	0.03	0.03
SJVAB	2040	0.00	0.02	0.51	0.31	0.08	0.00	237	0.00	0.00	0.63	0.18	1.80	0.00	0.00	0.00	59	0.04	0.03	0.03	0.03

Source: EMFAC2021; AP-42

Section 2.6. Hydrogen Variant Fuel Transport

Presents emissions calculations and assumptions for transport of offsite hydrogen fuel for the project Variants. Offsite hydrogen fuel transport under the H1 Variant would only occur under the 12-train scenario; offsite hydrogen fuel transport under the H2 and H3 Variants would occur under the 8-train and 12-train scenarios. Emissions were quantified using the assumptions further described in Section 3, *Well-to-Wheels Greenhouse Gas Analysis,* of this appendix. Analyses for the H1 and H2 Variants used vehicle emission factors from EMFAC2021. Analysis for the H3 Variant used freight rail emission factors obtained from the USEPA.

Section 2.6.1 H1 Variant

H1 Cumulative Condition ONLY Variant Hydrogen Transport Emissions Limited Hydrogen Deployment Scenario (Tailpipe)

12 Trains - H1 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Opening (2032)															
H1A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	961	728,079	0.01	0.76	0.21	0.34	0.10	0.01	949	0.03	0.15	995	100,626	195,017
H1B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	961	560,947	0.01	0.58	0.16	0.26	0.07	0.01	732	0.03	0.12	767	77,527	150,251
Horizon (2040)															
H1A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	961	728,079	0.01	0.50	0.14	0.33	0.09	0.01	654	0.02	0.10	686	69,560	513,170
H1B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	961	560,947	0.00	0.38	0.11	0.25	0.07	0.01	504	0.02	0.08	529	53,593	395,371

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2032	Max transport condition - H1A (renewable)	961	728,079	0.01	0.76	0.21	0.34	0.10	0.01	949	0.03	0.15	995	100,626	195,017
2040	Max transport condition - H1A (renewable)	961	728,079	0.01	0.50	0.14	0.33	0.09	0.01	654	0.02	0.10	686	69,560	513,170
2032	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.04	0.01	0.02	0.00	0.00	45	0.00	0.01	47		
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.02	0.01	0.02	0.00	0.00	31	0.00	0.00	33		
2032	Max transport condition - H1A (renewable) (SCAB)			0.00	0.31	0.09	0.14	0.04	0.00	391	0.01	0.06	410		
2040	Max transport condition - H1A (renewable) (SCAB)			0.00	0.20	0.06	0.13	0.04	0.00	269	0.01	0.04	282		
2032	Max transport condition - H1A (renewable) (SJVAB)			0.00	0.41	0.11	0.18	0.05	0.01	513	0.02	0.08	538		
2040	Max transport condition - H1A (renewable) (SJVAB)			0.00	0.27	0.07	0.18	0.05	0.00	354	0.01	0.06	371		
2032	Max transport condition - H1A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		
2040	Max transport condition - H1A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2032	Max transport condition - H1A (renewable)	3	1,995	0.04	4.14	1.16	1.85	0.53	0.05
2040	Max transport condition - H1A (renewable)	3	1,995	0.03	2.72	0.74	1.79	0.50	0.04
2032	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.20	0.06	0.09	0.03	0.00
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.13	0.04	0.09	0.02	0.00
2032	Max transport condition - H1A (renewable) (SCAB)			0.02	1.70	0.48	0.76	0.22	0.02
2040	Max transport condition - H1A (renewable) (SCAB)			0.01	1.12	0.30	0.74	0.21	0.01
2032	Max transport condition - H1A (renewable) (SJVAB)			0.02	2.24	0.63	1.00	0.29	0.03
2040	Max transport condition - H1A (renewable) (SJVAB)			0.02	1.47	0.40	0.97	0.27	0.02
2032	Max transport condition - H1A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00
2040	Max transport condition - H1A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

Transport Assumptions Limited Hydrogen Deployment Scenario

Scenario H1A

Project = All onsite (no offsite fueling or transport trips)

Cumulative = onsite solar hydrogen for 3 trains fueled at MITC + 5 hydrogen trains fueled by offsite "green" hydrogen in Merced + 4 diesel trains

	Annual kg H2
Condition	Offsite "Green"
Project variant (8 trains)	0
Cumulative variant (12 trains)	365,000

	Annual Roundtrips
Condition	Offsite "Green"
Project variant (8 trains)	0
Cumulative variant (12 trains)	961

	Annual Miles	
Condition	Offsite "Green" Min	Offsite "Green" Max
Project variant (8 trains)	0	0
Cumulative variant (12 trains)	195,947	728,079

Min hauling scenario assumes "green" hydrogen originates from the Central Valley and is delivered to Merced.

Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario H1B

Project = All onsite (no offsite fueling or transport trips)

Cumulative = onsite solar hydrogen for 3 trains fueled at MITC + 5 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 4 diesel trains

	Annual kg H2
Condition	Offsite "Gray"
Project variant (8 trains)	0
Cumulative variant (12 trains)	365,000

	Annual Roundtrips
Condition	Offsite "Gray"
Project variant (8 trains)	0
Cumulative variant (12 trains)	961

	Annual Miles	
Condition	Offsite "Gray" Min	Offsite "Gray" Max
Project variant (8 trains)	0	0

Cumulative variant (12 trains)	230,526	560,947

Min hauling scenario assumes "gray" hydrogen originates from Northern California and is delivered to Merced.
Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

H1 Variant Hydrogen Transport Emissions Full Hydrogen Deployment Scenario (Tailpipe)

8 Trains - H1 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)															
H1A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	961	728,079	0.01	0.50	0.14	0.33	0.09	0.01	654	0.02	0.10	686	69,560	513,170
H1B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	961	560,947	0.00	0.38	0.11	0.25	0.07	0.01	504	0.02	0.08	529	53,593	395,371

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H1A (renewable)	961	728,079	0.01	0.50	0.14	0.33	0.09	0.01	654	0.02	0.10	686	69,560	513,170
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.02	0.01	0.02	0.00	0.00	31	0.00	0.00	33		
2040	Max transport condition - H1A (renewable) (SCAB)			0.00	0.20	0.06	0.13	0.04	0.00	269	0.01	0.04	282		
2040	Max transport condition - H1A (renewable) (SJVAB)			0.00	0.27	0.07	0.18	0.05	0.00	354	0.01	0.06	371		
2040	Max transport condition - H1A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H1A (renewable)	3	1,995	0.03	2.72	0.74	1.79	0.50	0.04
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.13	0.04	0.09	0.02	0.00
2040	Max transport condition - H1A (renewable) (SCAB)			0.01	1.12	0.30	0.74	0.21	0.01
2040	Max transport condition - H1A (renewable) (SJVAB)			0.02	1.47	0.40	0.97	0.27	0.02
2040	Max transport condition - H1A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

12 Trains - H1 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)															
H1A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	1,729	1,310,542	0.01	0.89	0.24	0.59	0.17	0.01	1,178	0.04	0.19	1,235	125,209	923,705
H1B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	1,729	1,009,705	0.01	0.69	0.19	0.45	0.13	0.01	908	0.03	0.14	951	96,467	711,668

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H1A (renewable)	1,729	1,310,542	0.01	0.89	0.24	0.59	0.17	0.01	1,178	0.04	0.19	1,235	125,209	923,705
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.04	0.01	0.03	0.01	0.00	56	0.00	0.01	59		
2040	Max transport condition - H1A (renewable) (SCAB)			0.00	0.37	0.10	0.24	0.07	0.00	485	0.02	0.08	508		
2040	Max transport condition - H1A (renewable) (SJVAB)			0.01	0.48	0.13	0.32	0.09	0.01	637	0.02	0.10	668		
2040	Max transport condition - H1A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H1A (renewable)	5	3,591	0.05	4.90	1.33	3.23	0.91	0.06
2040	Max transport condition - H1A (renewable) (Salton Sea Air Basin)			0.00	0.23	0.06	0.15	0.04	0.00
2040	Max transport condition - H1A (renewable) (SCAB)			0.02	2.02	0.55	1.33	0.37	0.03
2040	Max transport condition - H1A (renewable) (SJVAB)			0.03	2.65	0.72	1.75	0.49	0.03
2040	Max transport condition - H1A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

"Full" Hydrogen Deployment Scenario Transport Assumptions

Scenario H1A (2040 only)

Project = onsite solar hydrogen for 3 trains fueled at MITC + 5 hydrogen trains fueled by offsite "green" hydrogen in Merced
Cumulative = onsite solar hydrogen for 3 trains fueled at MITC + 9 hydrogen trains fueled by offsite "green" hydrogen in Merced

	Annual kg H2
Condition	Offsite "Green"
Project variant (8 trains)	365,000
Cumulative variant (12 trains)	657,000

	Annual Roundtrips
Condition	Offsite "Green"
Project variant (8 trains)	961
Cumulative variant (12 trains)	1,729

	Annual Miles	
Condition	Offsite "Green" Min	Offsite "Green" Max
Project variant (8 trains)	195,947	728,079
Cumulative variant (12 trains)	352,705	1,310,542

Min hauling scenario assumes "green" hydrogen originates from the Central Valley and is delivered to Merced.
Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario H1B

Project = All onsite (no offsite fueling or transport trips)
Cumulative = onsite solar hydrogen for 3 trains fueled at MITC + 5 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 4 diesel trains

	Annual kg H2
Condition	Offsite "Gray"
Project variant (8 trains)	365,000
Cumulative variant (12 trains)	657,000

	Annual Roundtrips
Condition	Offsite "Gray"
Project variant (8 trains)	961
Cumulative variant (12 trains)	1,729

	Annual Miles	
Condition	Offsite "Gray" Min	Offsite "Gray" Max
Project variant (8 trains)	230,526	560,947
Cumulative variant (12 trains)	414,947	1,009,705

Min hauling scenario assumes "gray" hydrogen originates from Northern California and is delivered to Merced.
Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

Travel Assumptions for T&D of Offsite Hydrogen

Green Hydrogen (origin - destination)		
Palm Springs - Merced	379	miles/one-way trip
Long Beach - Merced	296	miles/one-way trip
Kings County - Merced	102	miles/one-way trip
Lancaster - Merced	251	miles/one-way trip
Min distance to Merced	102	miles/one-way trip
Max distance to Merced	379	miles/one-way trip

Estimated miles by air basin for max distance (measured in Google Earth)		
Salton Sea	18	5%
SCAB	156	41%
SJVAB	205	54%
SFBAAB	0	0%
MDAB	0	0%

Gray Hydrogen (origin - destination)		
Bakersfield - Merced	164	miles/one-way trip
Richmond - Merced	131	miles/one-way trip
El Segundo - Merced	280	miles/one-way trip
Rodeo - Merced	133	miles/one-way trip
Wilmington - Merced	292	miles/one-way trip
Martinez - Merced	124	miles/one-way trip
Carson - Merced	289	miles/one-way trip
Torrance - Merced	286	miles/one-way trip
Benicia - Merced	120	miles/one-way trip
Min distance to Merced	120	miles/one-way trip
Max distance to Merced	292	miles/one-way trip

Estimated miles by air basin for max distance (measured in Google Earth)		
Salton Sea	0	0%
SCAB	87	30%
SJVAB	205	70%
SFBAAB	0	0%
MDAB	0	0%

Tube trail average capacity	380	kg/roundtrip

Weighted T7 Single Other Emission Factors for Statewide

		Running (RUNEX, PMTW, PMBW, Road Dust) grams per mile									Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip									Fuel	
Location	Year	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	gal/mi	kWh/mi
State	2032	0.01	0.93	0.26	0.42	0.12	0.01	1302.67	0.04	0.21	0.17	4.27	2.81	0.00	0.00	0.00	421.46	0.15	0.07	0.14	0.27
State	2040	0.01	0.61	0.16	0.41	0.11	0.01	897.75	0.03	0.14	0.13	2.95	2.20	0.00	0.00	0.00	306.75	0.11	0.05	0.10	0.70

Source: EMFAC2021, AP-42

Section 2.6.2 H2 Variant

H2 Variant Hydrogen Transport Emissions Limited Hydrogen Deployment Scenario (Tailpipe)

8 Trains - H2 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Opening (2032)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	576	436,847	0.00	0.45	0.13	0.20	0.06	0.01	570	0.02	0.09	597	60,375	117,010
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	576	336,568	0.00	0.35	0.10	0.16	0.04	0.00	439	0.02	0.07	460	46,516	90,151
Horizon (2040)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	576	436,847	0.00	0.30	0.08	0.20	0.06	0.00	393	0.01	0.06	412	41,736	307,902
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	576	336,568	0.00	0.23	0.06	0.15	0.04	0.00	303	0.01	0.05	317	32,156	237,223

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2032	Max transport condition - H2A (renewable)	576	436,847	0.00	0.45	0.13	0.20	0.06	0.01	570	0.02	0.09	597	60,375	117,010
2040	Max transport condition - H2A (renewable)	576	436,847	0.00	0.30	0.08	0.20	0.06	0.00	393	0.01	0.06	412	41,736	307,902
2032	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.02	0.01	0.01	0.00	0.00	27	0.00	0.00	28		
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.01	0.00	0.01	0.00	0.00	19	0.00	0.00	20		
2032	Max transport condition - H2A (renewable) (SCAB)			0.00	0.19	0.05	0.08	0.02	0.00	234	0.01	0.04	246		
2040	Max transport condition - H2A (renewable) (SCAB)			0.00	0.12	0.03	0.08	0.02	0.00	162	0.01	0.03	169		
2032	Max transport condition - H2A (renewable) (SJVAB)			0.00	0.25	0.07	0.11	0.03	0.00	308	0.01	0.05	323		
2040	Max transport condition - H2A (renewable) (SJVAB)			0.00	0.16	0.04	0.11	0.03	0.00	212	0.01	0.03	223		
2032	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2032	Max transport condition - H2A (renewable)	2	1,197	0.03	2.48	0.70	1.11	0.32	0.03
2040	Max transport condition - H2A (renewable)	2	1,197	0.02	1.63	0.44	1.08	0.30	0.02
2032	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.12	0.03	0.05	0.02	0.00
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.08	0.02	0.05	0.01	0.00
2032	Max transport condition - H2A (renewable) (SCAB)			0.01	1.02	0.29	0.46	0.13	0.01
2040	Max transport condition - H2A (renewable) (SCAB)			0.01	0.67	0.18	0.44	0.12	0.01
2032	Max transport condition - H2A (renewable) (SJVAB)			0.01	1.34	0.38	0.60	0.17	0.02
2040	Max transport condition - H2A (renewable) (SJVAB)			0.01	0.88	0.24	0.58	0.16	0.01
2032	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

12 Trains - H2 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Opening (2032)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	1,537	1,164,926	0.01	1.21	0.34	0.54	0.16	0.02	1,519	0.05	0.24	1,592	161,001	312,028
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	1,537	897,516	0.01	0.93	0.26	0.42	0.12	0.01	1,170	0.04	0.19	1,227	124,043	240,401
Horizon (2040)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	1,537	1,164,926	0.01	0.79	0.22	0.52	0.15	0.01	1,047	0.04	0.17	1,097	111,297	821,072
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	1,537	897,516	0.01	0.61	0.17	0.40	0.11	0.01	807	0.03	0.13	846	85,748	632,593

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh

2032	Max transport condition - H2A (renewable)	1,537	1,164,926	0.01	1.21	0.34	0.54	0.16	0.02	1,519	0.05	0.24	1,592	161,001	312,028	
2040	Max transport condition - H2A (renewable)	1,537	1,164,926	0.01	0.79	0.22	0.52	0.15	0.01	1,047	0.04	0.17	1,097	111,297	821,072	
2032	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.06	0.02	0.03	0.01	0.00	72	0.00	0.01	76			
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.04	0.01	0.02	0.01	0.00	50	0.00	0.01	52			
2032	Max transport condition - H2A (renewable) (SCAB)			0.01	0.50	0.14	0.22	0.06	0.01	625	0.02	0.10	655			
2040	Max transport condition - H2A (renewable) (SCAB)			0.00	0.33	0.09	0.22	0.06	0.00	431	0.02	0.07	452			
2032	Max transport condition - H2A (renewable) (SJVAB)			0.01	0.65	0.18	0.29	0.08	0.01	822	0.03	0.13	861			
2040	Max transport condition - H2A (renewable) (SJVAB)			0.00	0.43	0.12	0.28	0.08	0.01	566	0.02	0.09	594			
2032	Max transport condition - H2A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0			
2040	Max transport condition - H2A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0			

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2032	Max transport condition - H2A (renewable)	4	3,192	0.07	6.62	1.86	2.95	0.85	0.08
2040	Max transport condition - H2A (renewable)	4	3,192	0.05	4.36	1.18	2.87	0.81	0.06
2032	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.31	0.09	0.14	0.04	0.00
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.21	0.06	0.14	0.04	0.00
2032	Max transport condition - H2A (renewable) (SCAB)			0.03	2.73	0.76	1.22	0.35	0.03
2040	Max transport condition - H2A (renewable) (SCAB)			0.02	1.79	0.49	1.18	0.33	0.02
2032	Max transport condition - H2A (renewable) (SJVAB)			0.04	3.58	1.00	1.60	0.46	0.05
2040	Max transport condition - H2A (renewable) (SJVAB)			0.03	2.36	0.64	1.55	0.44	0.03
2032	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

Transport Assumptions Limited Hydrogen Deployment Scenario

Scenario H2A

Project = 3 hydrogen trains fueled by offsite "green" hydrogen in Merced + 5 diesel trains
Cumulative = 8 hydrogen trains fueled by offsite "green" hydrogen in Merced + 4 diesel trains

	Annual kg H2
Condition	Offsite "Green"
Project variant (8 trains)	219,000
Cumulative variant (12 trains)	584,000

	Annual Roundtrips
Condition	Offsite "Green"
Project variant (8 trains)	576
Cumulative variant (12 trains)	1,537

	Annual Miles	
Condition	Offsite "Green" Min	Offsite "Green" Max
Project variant (8 trains)	117,568	436,847
Cumulative variant (12 trains)	313,516	1,164,926

Min hauling scenario assumes "green" hydrogen originates from the Central Valley and is delivered to Merced.
Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario H2B

Project = 3 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 5 diesel trains
Cumulative = 8 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 4 diesel trains

	Annual kg H2
Condition	Offsite "Gray"
Project variant (8 trains)	219,000
Cumulative variant (12 trains)	584,000

	Annual Roundtrips
Condition	Offsite "Gray"
Project variant (8 trains)	576
Cumulative variant (12 trains)	1,537

	Annual Miles	
Condition	Offsite "Gray" Min	Offsite "Gray" Max

H2 Variant Hydrogen Transport Emissions Full Hydrogen Deployment Scenario (Tailpipe)

8 Trains - H2 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	1,537	1,164,926	0.01	0.79	0.22	0.52	0.15	0.01	1,047	0.04	0.17	1,097	111,297	821,072
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	1,537	897,516	0.01	0.61	0.17	0.40	0.11	0.01	807	0.03	0.13	846	85,748	632,593

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H2A (renewable)	1,537	1,164,926	0.01	0.79	0.22	0.52	0.15	0.01	1,047	0.04	0.17	1,097	111,297	821,072
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.04	0.01	0.02	0.01	0.00	50	0.00	0.01	52		
2040	Max transport condition - H2A (renewable) (SCAB)			0.00	0.33	0.09	0.22	0.06	0.00	431	0.02	0.07	452		
2040	Max transport condition - H2A (renewable) (SJVAB)			0.00	0.43	0.12	0.28	0.08	0.01	566	0.02	0.09	594		
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H2A (renewable)	4	3,192	0.05	4.36	1.18	2.87	0.81	0.06
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.21	0.06	0.14	0.04	0.00
2040	Max transport condition - H2A (renewable) (SCAB)			0.02	1.79	0.49	1.18	0.33	0.02
2040	Max transport condition - H2A (renewable) (SJVAB)			0.03	2.36	0.64	1.55	0.44	0.03
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

12 Trains - H2 Variant

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)															
H2A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	2,305	1,747,389	0.01	1.19	0.32	0.79	0.22	0.02	1,570	0.06	0.25	1,646	166,945	1,231,607
H2B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	2,305	1,346,274	0.01	0.92	0.25	0.61	0.17	0.01	1,210	0.04	0.19	1,269	128,623	948,890

		Annual Transport		Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H2A (renewable)	2,305	1,747,389	0.01	1.19	0.32	0.79	0.22	0.02	1,570	0.06	0.25	1,646	166,945	1,231,607
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.06	0.02	0.04	0.01	0.00	75	0.00	0.01	78		
2040	Max transport condition - H2A (renewable) (SCAB)			0.01	0.49	0.13	0.32	0.09	0.01	646	0.02	0.10	678		
2040	Max transport condition - H2A (renewable) (SJVAB)			0.01	0.64	0.18	0.42	0.12	0.01	849	0.03	0.14	890		
2040	Max transport condition - H2A (renewable) (SFBAAB)			0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0		

		Daily Transport		Pounds per day					
Year	Production Type and Source Location (Apportionment)	Roundtrips	VMT	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H2A (renewable)	6	4,787	0.07	6.53	1.78	4.31	1.21	0.09
2040	Max transport condition - H2A (renewable) (Salton Sea Air Basin)			0.00	0.31	0.08	0.20	0.06	0.00
2040	Max transport condition - H2A (renewable) (SCAB)			0.03	2.69	0.73	1.77	0.50	0.04
2040	Max transport condition - H2A (renewable) (SJVAB)			0.04	3.53	0.96	2.33	0.65	0.05
2040	Max transport condition - H2A (renewable) (MDAB)			0.00	0.00	0.00	0.00	0.00	0.00

"Full" Hydrogen Deployment Scenario Transport Assumptions

Scenario H2A

Project = 8 hydrogen trains fueled by offsite "green" hydrogen in Merced
Cumulative = 12 hydrogen trains fueled by offsite "green" hydrogen in Merced

	Annual kg H2
Condition	Offsite "Green"
Project variant (8 trains)	584,000
Cumulative variant (12 trains)	876,000

	Annual Roundtrips
Condition	Offsite "Green"
Project variant (8 trains)	1,537
Cumulative variant (12 trains)	2,305

	Annual Miles	
Condition	Offsite "Green" Min	Offsite "Green" Max
Project variant (8 trains)	313,516	1,164,926
Cumulative variant (12 trains)	470,274	1,747,389

Min hauling scenario assumes "green" hydrogen originates from the Central Valley and is delivered to Merced.
Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario H2B

Project = 8 hydrogen trains fueled by offsite "gray" hydrogen in Merced
Cumulative = 12 hydrogen trains fueled by offsite "gray" hydrogen in Merced

	Annual kg H2
Condition	Offsite "Gray"
Project variant (8 trains)	584,000
Cumulative variant (12 trains)	876,000

	Annual Roundtrips
Condition	Offsite "Gray"
Project variant (8 trains)	1,537
Cumulative variant (12 trains)	2,305

	Annual Miles	
Condition	Offsite "Gray" Min	Offsite "Gray" Max
Project variant (8 trains)	368,842	897,516
Cumulative variant (12 trains)	553,263	1,346,274

Min hauling scenario assumes "gray" hydrogen originates from Northern California and is delivered to Merced.
Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

Project variant (8 trains)	138,316	336,568
Cumulative variant (12 trains)	368,842	897,516

Min hauling scenario assumes "gray" hydrogen originates from Northern California and is delivered to Merced.
Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

Travel Assumptions for T&D of Offsite Hydrogen

Green Hydrogen (origin - destination)		
Palm Springs - Merced	379	miles/one-way trip
Long Beach - Merced	296	miles/one-way trip
Kings County - Merced	102	miles/one-way trip
Lancaster - Merced	251	miles/one-way trip
Min distance to Merced	102	miles/one-way trip
Max distance to Merced	379	miles/one-way trip

Estimated miles by air basin for max distance (measured in Google Earth)		
Salton Sea	18	5%
SCAB	156	41%
SJVAB	205	54%
SFBAAB	0	0%
MDAB	0	0%

Gray Hydrogen (origin - destination)		
Bakersfield - Merced	164	miles/one-way trip
Richmond - Merced	131	miles/one-way trip
El Segundo - Merced	280	miles/one-way trip
Rodeo - Merced	133	miles/one-way trip
Wilmington - Merced	292	miles/one-way trip
Martinez - Merced	124	miles/one-way trip
Carson - Merced	289	miles/one-way trip
Torrance - Merced	286	miles/one-way trip
Benicia - Merced	120	miles/one-way trip
Min distance to Merced	120	miles/one-way trip
Max distance to Merced	292	miles/one-way trip

Estimated miles by air basin for max distance (measured in Google Earth)		
Salton Sea	0	0%
SCAB	87	30%
SJVAB	205	70%
SFBAAB	0	0%
MDAB	0	0%

Tube trail average capacity	380	kg/roundtrip

Weighted T7 Single Other Emission Factors for Statewide

		Running (RUNEX, PMTW, PMBW, Road Dust) grams per mile									Process (IDLEX, STREX, TOTEX, DIURN, HTSK, RUNLS, RESTL) grams per trip									Fuel	
Location	Year	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	gal/mi	kWh/mi
State	2032	0.01	0.93	0.26	0.42	0.12	0.01	1302.67	0.04	0.21	0.17	4.27	2.81	0.00	0.00	0.00	421.46	0.15	0.07	0.14	0.27
State	2040	0.01	0.61	0.16	0.41	0.11	0.01	897.75	0.03	0.14	0.13	2.95	2.20	0.00	0.00	0.00	306.75	0.11	0.05	0.10	0.70

Source: EMFAC2021, AP-42

Section 2.6.2 H3 Variant

H3 Variant Hydrogen Freight Transport Emissions Limited Hydrogen Deployment Scenario (Tailpipe)

8 Trains - H2 Variant

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Opening (2032)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	190,135	0.01	0.30	0.17	0.01	0.01	0.00	61	0.00	0.00	61	5955	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	170,847	0.01	0.27	0.16	0.01	0.01	0.00	55	0.00	0.00	55	5351	0.00
Horizon (2040)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	190,135	0.01	0.18	0.17	0.00	0.00	0.00	61	0.00	0.00	61	5955	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	170,847	0.01	0.17	0.16	0.00	0.00	0.00	55	0.00	0.00	55	5351	0.00

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2032	Max transport condition - H3A (renewable)	190,135	0.01	0.30	0.17	0.01	0.01	0.00	61	0.00	0.00	61	5955	0.00
2040	Max transport condition - H3A (renewable)	190,135	0.01	0.18	0.17	0.00	0.00	0.00	61	0.00	0.00	61	5955	0.00
2032	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.01	0.00	0.00	0.00	0.00	2	0.00	0.00	2		
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	2		
2032	Max transport condition - H3A (renewable) (SCAB)		0.00	0.05	0.03	0.00	0.00	0.00	9	0.00	0.00	9		
2040	Max transport condition - H3A (renewable) (SCAB)		0.00	0.03	0.03	0.00	0.00	0.00	9	0.00	0.00	9		
2032	Max transport condition - H3A (renewable) (SJVAB)		0.01	0.15	0.09	0.00	0.00	0.00	30	0.00	0.00	30		
2040	Max transport condition - H3A (renewable) (SJVAB)		0.00	0.09	0.09	0.00	0.00	0.00	30	0.00	0.00	30		
2032	Max transport condition - H3A (renewable) (MDAB)		0.00	0.10	0.06	0.00	0.00	0.00	20	0.00	0.00	20		
2040	Max transport condition - H3A (renewable) (MDAB)		0.00	0.06	0.06	0.00	0.00	0.00	20	0.00	0.00	20		

		Daily Transport	Pounds per day					
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2
2032	Max transport condition - H3A (renewable)	521	0.06	1.65	0.96	0.03	0.03	0.00
2040	Max transport condition - H3A (renewable)	521	0.04	1.01	0.96	0.01	0.01	0.00
2032	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.04	0.03	0.00	0.00	0.00
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.03	0.03	0.00	0.00	0.00
2032	Max transport condition - H3A (renewable) (SCAB)		0.01	0.26	0.15	0.00	0.00	0.00
2040	Max transport condition - H3A (renewable) (SCAB)		0.01	0.16	0.15	0.00	0.00	0.00
2032	Max transport condition - H3A (renewable) (SJVAB)		0.03	0.82	0.47	0.02	0.02	0.00
2040	Max transport condition - H3A (renewable) (SJVAB)		0.02	0.50	0.47	0.01	0.01	0.00
2032	Max transport condition - H3A (renewable) (MDAB)		0.02	0.54	0.31	0.01	0.01	0.00
2040	Max transport condition - H3A (renewable) (MDAB)		0.01	0.33	0.31	0.00	0.00	0.00

12 Trains - H2 Variant

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Opening (2032)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	507,025	0.03	0.81	0.47	0.02	0.02	0.00	162	0.01	0.00	163	15880	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	455,591	0.03	0.72	0.42	0.01	0.01	0.00	146	0.01	0.00	146	14269	0.00
Horizon (2040)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	507,025	0.02	0.49	0.47	0.01	0.01	0.00	162	0.01	0.00	163	15880	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	455,591	0.02	0.44	0.42	0.01	0.01	0.00	146	0.01	0.00	146	14269	0.00

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2032	Max transport condition - H3A (renewable)	507,025	0.03	0.81	0.47	0.02	0.02	0.00	162	0.01	0.00	163	15880	0.00
2040	Max transport condition - H3A (renewable)	507,025	0.02	0.49	0.47	0.01	0.01	0.00	162	0.01	0.00	163	15880	0.00
2032	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.02	0.01	0.00	0.00	0.00	4	0.00	0.00	4		
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.01	0.01	0.00	0.00	0.00	4	0.00	0.00	4		
2032	Max transport condition - H3A (renewable) (SCAB)		0.00	0.12	0.07	0.00	0.00	0.00	25	0.00	0.00	25		
2040	Max transport condition - H3A (renewable) (SCAB)		0.00	0.08	0.07	0.00	0.00	0.00	25	0.00	0.00	25		
2032	Max transport condition - H3A (renewable) (SJVAB)		0.01	0.40	0.23	0.01	0.01	0.00	80	0.01	0.00	81		
2040	Max transport condition - H3A (renewable) (SJVAB)		0.01	0.24	0.23	0.00	0.00	0.00	80	0.01	0.00	81		
2032	Max transport condition - H3A (renewable) (MDAB)		0.01	0.26	0.15	0.01	0.00	0.00	52	0.00	0.00	53		
2040	Max transport condition - H3A (renewable) (MDAB)		0.01	0.16	0.15	0.00	0.00	0.00	52	0.00	0.00	53		

		Daily Transport	Pounds per day					
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2
2032	Max transport condition - H3A (renewable)	1,389	0.16	4.41	2.55	0.09	0.08	0.01
2040	Max transport condition - H3A (renewable)	1,389	0.10	2.69	2.55	0.04	0.04	0.01
2032	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.12	0.07	0.00	0.00	0.00
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.07	0.07	0.00	0.00	0.00
2032	Max transport condition - H3A (renewable) (SCAB)		0.02	0.68	0.39	0.01	0.01	0.00
2040	Max transport condition - H3A (renewable) (SCAB)		0.02	0.41	0.39	0.01	0.01	0.00
2032	Max transport condition - H3A (renewable) (SJVAB)		0.08	2.19	1.27	0.04	0.04	0.00
2040	Max transport condition - H3A (renewable) (SJVAB)		0.05	1.33	1.27	0.02	0.02	0.00
2032	Max transport condition - H3A (renewable) (MDAB)		0.05	1.43	0.83	0.03	0.03	0.00
2040	Max transport condition - H3A (renewable) (MDAB)		0.03	0.87	0.83	0.01	0.01	0.00

0.00

Transport Assumptions Limited Hydrogen Deployment Scenario

Scenario H3A

Project = 3 hydrogen trains fueled by offsite "green" hydrogen in Merced + 5 diesel trains

Cumulative = 8 hydrogen trains fueled by offsite "green" hydrogen in Merced + 4 diesel trains

	Annual kg H2	Annual ton H2
Condition	Offsite "Green"	Offsite "Green"
Project variant (8 trains)	219,000	241
Cumulative variant (12 trains)	584,000	644

	Annual max ton-miles
Condition	Offsite "Green"
Project variant (8 trains)	190,135
Cumulative variant (12 trains)	507,025

Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario HB

Project = 3 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 5 diesel trains

Cumulative = 8 hydrogen trains fueled by offsite "gray" hydrogen in Merced + 4 diesel trains

	Annual kg H2	Annual ton H2
Condition	Offsite "Gray"	Offsite "Green"
Project variant (8 trains)	219,000	241
Cumulative variant (12 trains)	584,000	644

	Annual max ton-miles
Condition	Offsite "Gray"
Project variant (8 trains)	170,847
Cumulative variant (12 trains)	455,591

Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

H3 Variant Hydrogen Freight Transport Emissions Full Hydrogen Deployment Scenario (Tailpipe)

8 Trains - H2 Variant

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	507,025	0.02	0.49	0.47	0.01	0.01	0.00	162	0.01	0.00	163	15880	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	455,591	0.02	0.44	0.42	0.01	0.01	0.00	146	0.01	0.00	146	14269	0.00

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H3A (renewable)	507,025	0.02	0.49	0.47	0.01	0.01	0.00	162	0.01	0.00	163	15880	0.00
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.01	0.01	0.00	0.00	0.00	4	0.00	0.00	4		
2040	Max transport condition - H3A (renewable) (SCAB)		0.00	0.08	0.07	0.00	0.00	0.00	25	0.00	0.00	25		
2040	Max transport condition - H3A (renewable) (SJVAB)		0.01	0.24	0.23	0.00	0.00	0.00	80	0.01	0.00	81		
2040	Max transport condition - H3A (renewable) (MDAB)		0.01	0.16	0.15	0.00	0.00	0.00	52	0.00	0.00	53		

		Daily Transport	Pounds per day					
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H3A (renewable)	1,389	0.10	2.69	2.55	0.04	0.04	0.01
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.07	0.07	0.00	0.00	0.00
2040	Max transport condition - H3A (renewable) (SCAB)		0.02	0.41	0.39	0.01	0.01	0.00
2040	Max transport condition - H3A (renewable) (SJVAB)		0.05	1.33	1.27	0.02	0.02	0.00
2040	Max transport condition - H3A (renewable) (MDAB)		0.03	0.87	0.83	0.01	0.01	0.00

12 Trains - H2 Variant

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Scenario	Production Type and Source Location	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
Horizon (2040)														
H3A	Offsite renewably-produced H_2 (sourced from Southern CA, Palm Springs)	760,538	0.03	0.74	0.70	0.01	0.01	0.00	243	0.02	0.00	244	23819	0.00
H3B	Offsite SMR-produced H_2 (sourced from Southern CA, Wilmington)	683,387	0.02	0.66	0.63	0.01	0.01	0.00	219	0.02	0.00	220	21403	0.00

		Annual Transport	Tons/Metric Tons per Year										Fuel per Year	
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e	gal	kWh
2040	Max transport condition - H3A (renewable)	760,538	0.03	0.74	0.70	0.01	0.01	0.00	243	0.02	0.00	244	23819	0.00
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.02	0.02	0.00	0.00	0.00	6	0.00	0.00	6		
2040	Max transport condition - H3A (renewable) (SCAB)		0.00	0.11	0.11	0.00	0.00	0.00	38	0.00	0.00	38		
2040	Max transport condition - H3A (renewable) (SJVAB)		0.01	0.36	0.35	0.01	0.01	0.00	121	0.01	0.00	121		
2040	Max transport condition - H3A (renewable) (MDAB)		0.01	0.24	0.23	0.00	0.00	0.00	79	0.01	0.00	79		

		Daily Transport	Pounds per day					
Year	Production Type and Source Location (Apportionment)	Ton-Miles	ROG	NOx	CO	PM10	PM2.5	SO2
2040	Max transport condition - H3A (renewable)	2,084	0.15	4.03	3.83	0.06	0.06	0.01
2040	Max transport condition - H3A (renewable) (Salton Sea Air Basin)		0.00	0.11	0.10	0.00	0.00	0.00
2040	Max transport condition - H3A (renewable) (SCAB)		0.02	0.62	0.59	0.01	0.01	0.00
2040	Max transport condition - H3A (renewable) (SJVAB)		0.08	2.00	1.90	0.03	0.03	0.01
2040	Max transport condition - H3A (renewable) (MDAB)		0.05	1.30	1.24	0.02	0.02	0.00

"Full" Hydrogen Deployment Scenario Transport Assumptions

Scenario H3A
Project = 8 hydrogen trains fueled by offsite "green" hydrogen in Merced
Cumulative = 12 hydrogen trains fueled by offsite "green" hydrogen in Merced

	Annual kg H2	Annual ton H2
Condition	Offsite "Green"	Offsite "Green"
Project variant (8 trains)	584,000	644
Cumulative variant (12 trains)	876,000	966

	Annual max ton-miles
Condition	Offsite "Green"
Project variant (8 trains)	507,025
Cumulative variant (12 trains)	760,538

Max hauling scenario assumes "green" hydrogen originates from Southern California and is delivered to Merced.

Scenario HB
Project = 8 hydrogen trains fueled by offsite "gray" hydrogen in Merced
Cumulative = 12 hydrogen trains fueled by offsite "gray" hydrogen in Merced

	Annual kg H2	Annual ton H2
Condition	Offsite "Gray"	Offsite "Green"
Project variant (8 trains)	584,000	644
Cumulative variant (12 trains)	876,000	966

	Annual max ton-miles
Condition	Offsite "Gray"
Project variant (8 trains)	455,591
Cumulative variant (12 trains)	683,387

Max hauling scenario assumes "gray" hydrogen originates from Southern California and is delivered to Merced.

Freight Rail Travel Assumptions for T&D of Offsite Hydrogen

Green Hydrogen (origin - destination)

Palm Springs - Merced	393.8	miles/one-way trip

Source: ICF GIS

Freight miles by air basin for max distance (from GIS)

Salton Sea	10.5	3%
MBAB	127.4	32%
SCAB	60.8	15%
SJVAB	195.1	50%
SFBAAB	0.0	0%

Gray Hydrogen (origin - destination)

Wilmington - Merced	354	miles/one-way trip

Source: ICF GIS

Freight miles by air basin for max distance (from GIS)

Salton Sea	0	0%
MBAB	80.72355	23%
SCAB	78.004936	22%
SJVAB	195.12951	55%
SFBAAB	0	0%

Freight Emission Factors

Year		Grams per Ton Mile									Fuel
	Year	ROG	NOx	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	gal/mi
2032	2032	0.05	1.44	0.83	0.03	0.03	0.00	319.77	0.03	0.00	0.031
2040	2040	0.03	0.88	0.83	0.01	0.01	0.00	319.77	0.03	0.00	0.031

Section 2.7. Total Emissions by Source and Condition

Summarizes the emissions by source (e.g., San Joaquins Operations, bus bridge) for existing (2022), opening (2032), and horizon (2040) year conditions. Emissions are presented by air basin and district for the 8-train and 12-train scenarios.

Section 2.7.1 Existing (2022)

Existing (2022) Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	17.9	527.3	371.4	8.3	8.0	1.3	3.3	96.2	67.8	1.5	1.5	0.2	23,579	1.8	0.6	23,804
Locomotive LMF Idle	0.0	0.7	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	33	0.0	0.0	33
Locomotive Station Idle	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	0.0	5
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	2.0	28.9	27.8	7.19	2.1	0.3	0.3	4.4	4.2	1.1	0.3	0.0	4,488	0.0	0.4	4,595
Station and Maintenance	1.7	0.1	0.7	0.1	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.0	26	0.1	0.0	27
Avoided VMT and Trips	-13.1	-46.6	-548.4	-153.0	-38.4	-1.6	-2.4	-8.5	-100.1	-27.9	-7.0	-0.3	-27,385	-0.4	-0.6	-27,585
Net Total	8.5	510.6	-148.0	-137.4	-28.3	0.0	1.5	92.3	-27.9	-25.3	-5.2	0.0	746	1.6	0.3	880

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	3.4	99.1	69.8	1.6	1.5	0.2	0.6	18.1	12.7	0.3	0.3	0.0	4,432	0.3	0.1	4,474
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-2.1	-7.1	-83.8	-28.4	-7.1	-0.3	-0.4	-1.3	-15.3	-5.2	-1.3	-0.1	-4,790	-0.1	-0.1	-4,822
Total	1.3	92.0	-14.0	-26.9	-5.6	0.0	0.2	16.8	-2.6	-4.9	-1.0	0.0	-358	0.3	0.0	-348
SVAB																
Locomotive Operation	0.6	17.2	12.1	0.3	0.3	0.0	0.1	3.1	2.2	0.0	0.0	0.0	767	0.1	0.0	774
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-1.4	-17.7	-4.9	-1.2	-0.1	-0.1	-0.3	-3.2	-0.9	-0.2	0.0	-893	0.0	0.0	-899
Total	0.2	15.7	-5.6	-4.7	-1.0	0.0	0.0	2.9	-1.0	-0.9	-0.2	0.0	-126	0.0	0.0	-125

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Section 2.7.2 Opening (2032) 8-Trains

Opening (2032) No Project, 8 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	5.4	127.8	163.6	1.9	1.9	0.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Locomotive LMF Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Locomotive Station Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	0.1	0.5	0.6	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	51	0.0	0.0	53
Connecting Transit	1.1	19.2	11.0	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	112	0.4	0.0	123
Avoided VMT and Trips	-13.5	-32.7	-599.9	-300.3	-75.0	-2.5	-2.5	-6.0	-109.5	-54.8	-13.7	-0.5	-41,740	-0.3	-0.7	-41,950
Net Total	-0.6	121.5	-419.6	-290.7	-70.8	-1.6	-0.4	20.6	-77.5	-53.3	-13.0	-0.3	-27,353	0.9	0.0	-27,341

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	2.6	61.8	79.1	0.9	0.9	0.3	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073.2
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-9.1	-22.8	-400.9	-225.4	-56.4	-1.8	-1.7	-4.2	-73.2	-41.1	-10.3	-0.3	-30,546	-0.2	-0.5	-30,696
Total	-6.5	39.1	-321.7	-224.5	-55.5	-1.5	-1.2	7.1	-58.7	-41.0	-10.1	-0.3	-25,520	0.2	-0.4	-25,623
SVAB																
Locomotive Operation	0.7	16.5	21.1	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,350.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.5	-1.2	-21.8	-10.7	-2.7	-0.1	-0.1	-0.2	-4.0	-1.9	-0.5	0.0	-1,505	0.0	0.0	-1,512
Total	0.2	15.3	-0.7	-10.4	-2.4	0.0	0.0	2.8	-0.1	-1.9	-0.4	0.0	-167	0.1	0.0	-162

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 8 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	5.4	127.8	163.6	1.9	1.9	0.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Locomotive LMF Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Locomotive Station Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	118
Avoided VMT and Trips	-14.7	-37.0	-679.4	-340.9	-85.2	-2.8	-2.7	-6.7	-124.0	-62.2	-15.5	-0.5	-47,378	-0.4	-0.8	-47,615
Net Total	-1.9	116.7	-499.8	-331.4	-80.9	-2.0	-0.6	19.7	-92.1	-60.7	-14.9	-0.4	-33,047	0.9	-0.1	-33,064

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	2.6	61.8	79.1	0.9	0.9	0.3	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073.2
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-9.8	-25.3	-446.0	-251.5	-62.9	-2.0	-1.8	-4.6	-81.4	-45.9	-11.5	-0.4	-34,068	-0.3	-0.5	-34,235
Total	-7.2	36.5	-366.8	-250.5	-62.0	-1.8	-1.3	6.7	-66.9	-45.7	-11.3	-0.3	-29,043	0.1	-0.4	-29,162
SVAB																
Locomotive Operation	0.7	16.5	21.1	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,350.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.6	-1.4	-25.5	-12.5	-3.1	-0.1	-0.1	-0.2	-4.7	-2.3	-0.6	0.0	-1,765	0.0	0.0	-1,774
Total	0.1	15.1	-4.4	-12.3	-2.9	0.0	0.0	2.8	-0.8	-2.2	-0.5	0.0	-427	0.1	0.0	-423

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) No Project, 8 Train, with Limited Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	1.3	0.4	0.6	0.2	0.0	0.0	0.2	0.1	0.1	0.0	0.0	308	0.0	0.0	323
Bus Bridge	0.1	0.5	0.6	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	51	0.0	0.0	53
Connecting Transit	1.1	19.2	11.0	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	112	0.4	0.0	123
Avoided VMT and Trips	-13.5	-32.7	-599.9	-300.3	-75.0	-2.5	-2.5	-6.0	-109.5	-54.8	-13.7	-0.5	-41,740	-0.3	-0.7	-41,950
Net Total	-2.7	73.5	-482.3	-290.8	-71.3	-1.8	-0.7	11.8	-89.0	-53.3	-13.1	-0.3	-31,053	0.6	-0.1	-31,064

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.6	38.1	48.8	0.6	0.6	0.2	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-9.1	-22.8	-400.9	-225.4	-56.4	-1.8	-1.7	-4.2	-73.2	-41.1	-10.3	-0.3	-30,546	-0.2	-0.5	-30,696
Total	-7.5	15.4	-352.1	-224.9	-55.8	-1.7	-1.4	2.8	-64.3	-41.0	-10.2	-0.3	-27,446	0.0	-0.4	-27,567
SVAB																
Locomotive Operation	0.4	10.2	13.0	0.2	0.1	0.0	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.5	-1.2	-21.8	-10.7	-2.7	-0.1	-0.1	-0.2	-4.0	-1.9	-0.5	0.0	-1,505	0.0	0.0	-1,512
Total	-0.1	9.0	-8.8	-10.5	-2.5	0.0	0.0	1.6	-1.6	-1.9	-0.5	0.0	-680	0.1	0.0	-679
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	1.1	0.3	0.5	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	261	0.0	0.0	274

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 8 Train, with Limited Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	108	0.4	0.0	119
Avoided VMT and Trips	-14.7	-37.0	-679.4	-340.9	-85.2	-2.8	-2.7	-6.7	-124.0	-62.2	-15.5	-0.5	-47,378	-0.4	-0.8	-47,615
Net Total	-4.0	67.4	-563.0	-332.1	-81.7	-2.2	-1.0	10.7	-103.7	-60.9	-15.0	-0.4	-37,054	0.6	-0.2	-37,109

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.6	38.1	48.8	0.6	0.6	0.2	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-9.8	-25.3	-446.0	-251.5	-62.9	-2.0	-1.8	-4.6	-81.4	-45.9	-11.5	-0.4	-34,068	-0.3	-0.5	-34,235
Total	-8.2	12.8	-397.2	-250.9	-62.3	-1.9	-1.5	2.3	-72.5	-45.8	-11.4	-0.3	-30,969	0.0	-0.5	-31,106
SVAB																
Locomotive Operation	0.4	10.2	13.0	0.2	0.1	0.0	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.6	-1.4	-25.5	-12.5	-3.1	-0.1	-0.1	-0.2	-4.7	-2.3	-0.6	0.0	-1,765	0.0	0.0	-1,774
Total	-0.1	8.8	-12.5	-12.4	-3.0	-0.1	0.0	1.6	-2.3	-2.3	-0.5	0.0	-940	0.1	0.0	-941

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 8 Train, with Limited Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	1.3	0.4	0.6	0.2	0.0	0.0	0.2	0.1	0.1	0.0	0.0	308	0.0	0.0	323
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	118
Avoided VMT and Trips	-14.7	-37.0	-679.4	-340.9	-85.2	-2.8	-2.7	-6.7	-124.0	-62.2	-15.5	-0.5	-47,378	-0.4	-0.8	-47,615
Net Total	-4.0	68.7	-562.6	-331.5	-81.5	-2.2	-1.0	11.0	-103.6	-60.8	-15.0	-0.4	-36,746	0.6	-0.2	-36,787

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.6*	*38.1*	*48.8*	*0.6*	*0.6*	*0.2*	*0.3*	*7.0*	*8.9*	*0.1*	*0.1*	*0.0*	*3,099*	*0.2*	*0.1*	*3,129*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-9.8*	*-25.3*	*-446.0*	*-251.5*	*-62.9*	*-2.0*	*-1.8*	*-4.6*	*-81.4*	*-45.9*	*-11.5*	*-0.4*	*-34,068*	*-0.3*	*-0.5*	*-34,235*
Total	-8.2	12.8	-397.2	-250.9	-62.3	-1.9	-1.5	2.3	-72.5	-45.8	-11.4	-0.3	-30,969	0.0	-0.5	-31,106
SVAB																
Locomotive Operation	*0.4*	*10.2*	*13.0*	*0.2*	*0.1*	*0.0*	*0.1*	*1.9*	*2.4*	*0.0*	*0.0*	*0.0*	*825*	*0.1*	*0.0*	*833*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.6*	*-1.4*	*-25.5*	*-12.5*	*-3.1*	*-0.1*	*-0.1*	*-0.2*	*-4.7*	*-2.3*	*-0.6*	*0.0*	*-1,765*	*0.0*	*0.0*	*-1,774*
Total	-0.1	8.8	-12.5	-12.4	-3.0	-0.1	0.0	1.6	-2.3	-2.3	-0.5	0.0	-940	0.1	0.0	-941
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	1.1	0.3	0.5	0.1	0.0	0.0	0.2	0.1	0.1	0.0	0.0	261	0.0	0.0	274

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 8 Train, with Limited Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	30	0.0	0.0	30
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	118
Avoided VMT and Trips	-14.7	-37.0	-679.4	-340.9	-85.2	-2.8	-2.7	-6.7	-124.0	-62.2	-15.5	-0.5	-47,378	-0.4	-0.8	-47,615
Net Total	-4.0	68.2	-562.5	-332.1	-81.6	-2.2	-1.0	10.9	-103.6	-60.9	-15.0	-0.4	-37,024	0.6	-0.2	-37,080

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.6*	*38.1*	*48.8*	*0.6*	*0.6*	*0.2*	*0.3*	*7.0*	*8.9*	*0.1*	*0.1*	*0.0*	*3,099*	*0.2*	*0.1*	*3,129*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-9.8*	*-25.3*	*-446.0*	*-251.5*	*-62.9*	*-2.0*	*-1.8*	*-4.6*	*-81.4*	*-45.9*	*-11.5*	*-0.4*	*-34,068*	*-0.3*	*-0.5*	*-34,235*
Total	-8.2	12.8	-397.2	-250.9	-62.3	-1.9	-1.5	2.3	-72.5	-45.8	-11.4	-0.3	-30,969	0.0	-0.5	-31,106
SVAB																
Locomotive Operation	*0.4*	*10.2*	*13.0*	*0.2*	*0.1*	*0.0*	*0.1*	*1.9*	*2.4*	*0.0*	*0.0*	*0.0*	*825*	*0.1*	*0.0*	*833*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.6*	*-1.4*	*-25.5*	*-12.5*	*-3.1*	*-0.1*	*-0.1*	*-0.2*	*-4.7*	*-2.3*	*-0.6*	*0.0*	*-1,765*	*0.0*	*0.0*	*-1,774*
Total	-0.1	8.8	-12.5	-12.4	-3.0	-0.1	0.0	1.6	-2.3	-2.3	-0.5	0.0	-940	0.1	0.0	-941
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	31	0.0	0.0	31

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Section 2.7.3 Horizon (2040) 8-Trains

Horizon (2040) No Project, 8 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	5.4	127.8	163.6	1.9	1.9	0.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Locomotive LMF Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Locomotive Station Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	0.1	0.3	0.5	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	43	0.0	0.0	45
Connecting Transit	0.7	13.3	7.0	7.1	2.0	0.2	0.1	2.0	1.0	1.1	0.3	0.0	3,111	0.0	0.3	3,215
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	109	0.4	0.0	120
Avoided VMT and Trips	-10.5	-24.9	-559.5	-327.1	-81.5	-2.5	-1.9	-4.5	-102.1	-59.7	-14.9	-0.4	-41,287	-0.3	-0.6	-41,477
Net Total	1.9	123.2	-383.4	-317.6	-77.3	-1.7	0.1	21.1	-70.8	-58.2	-14.2	-0.3	-27,566	1.0	0.0	-27,539

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	2.6	61.8	79.1	0.9	0.9	0.3	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073.2
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-4.9	43.3	-304.8	-244.6	-60.3	-1.6	-0.9	7.9	-55.6	-44.6	-11.0	-0.3	-25,831	0.2	-0.3	-25,924
SVAB																
Locomotive Operation	0.7	16.5	21.1	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,350.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	0.3	15.6	0.6	-11.4	-2.7	0.0	0.1	2.8	0.1	-2.1	-0.5	0.0	-169	0.1	0.0	-163

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	5.4	127.8	163.6	1.9	1.9	0.6	1.0	23.3	29.9	0.3	0.3	0.1	10,390	0.8	0.3	10,489
Locomotive LMF Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Locomotive Station Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	27	0.0	0.0	28
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	0.7	13.3	6.9	7.1	2.0	0.2	0.1	2.0	1.0	1.1	0.3	0.0	3,111	0.0	0.3	3,215
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	104	0.4	0.0	115
Avoided VMT and Trips	-11.5	-28.1	-633.4	-371.1	-92.5	-2.8	-2.1	-5.1	-115.6	-67.7	-16.9	-0.5	-46,839	-0.3	-0.7	-47,054
Net Total	0.9	119.6	-457.9	-361.7	-88.3	-2.0	-0.1	20.4	-84.4	-66.3	-16.2	-0.4	-33,166	1.0	-0.1	-33,165

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	2.6	61.8	79.1	0.9	0.9	0.3	0.5	11.3	14.4	0.2	0.2	0.1	5,025	0.4	0.1	5,073.2
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551.4
Total	-5.4	41.3	-347.9	-272.8	-67.4	-1.8	-1.0	7.5	-63.5	-49.8	-12.3	-0.3	-29,369	0.2	-0.4	-29,478
SVAB																
Locomotive Operation	0.7	16.5	21.1	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,338	0.1	0.0	1,350.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Total	0.2	15.4	-2.9	-13.5	-3.2	0.0	0.0	2.8	-0.5	-2.5	-0.6	0.0	-430	0.1	0.0	-425

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) No Project, 8 Train, with Limited Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	0.9	0.2	0.6	0.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0	212	0.0	0.0	223
Bus Bridge	*0.1*	*0.3*	*0.5*	*0.1*	*0.0*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*43*	*0.0*	*0.0*	*45*
Connecting Transit	*0.7*	*13.3*	*7.0*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*109*	*0.4*	*0.0*	*120*
Avoided VMT and Trips	*-10.5*	*-24.9*	*-559.5*	*-327.1*	*-81.5*	*-2.5*	*-1.9*	*-4.5*	*-102.1*	*-59.7*	*-14.9*	*-0.4*	*-41,287*	*-0.3*	*-0.6*	*-41,477*
Net Total	-0.2	74.8	-446.3	-317.8	-77.9	-1.9	-0.3	12.3	-82.3	-58.2	-14.3	-0.3	-31,362	0.7	-0.1	-31,363

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.6	38.1	48.8	0.6	0.6	0.2	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-5.9	19.6	-335.2	-245.0	-60.7	-1.7	-1.1	3.6	-61.2	-44.7	-11.1	-0.3	-27,757	0.0	-0.4	-27,869
SVAB																
Locomotive Operation	0.4	10.2	13.0	0.2	0.1	0.0	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	0.0	9.2	-7.5	-11.5	-2.8	0.0	0.0	1.7	-1.4	-2.1	-0.5	0.0	-682	0.1	0.0	-681
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	0.7	0.2	0.5	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	180	0.0	0.0	189

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Limited Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	105	0.4	0.0	116
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.2	70.3	-521.1	-362.5	-89.1	-2.2	-0.5	11.4	-95.9	-66.4	-16.4	-0.4	-37,173	0.7	-0.2	-37,211

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.6	38.1	48.8	0.6	0.6	0.2	0.3	7.0	8.9	0.1	0.1	0.0	3,099	0.2	0.1	3,129
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.4	17.6	-378.2	-273.2	-67.7	-1.9	-1.2	3.2	-69.0	-49.9	-12.4	-0.3	-31,295	0.0	-0.4	-31,423
SVAB																
Locomotive Operation	0.4	10.2	13.0	0.2	0.1	0.0	0.1	1.9	2.4	0.0	0.0	0.0	825	0.1	0.0	833
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.0	9.1	-11.0	-13.6	-3.3	-0.1	0.0	1.7	-2.0	-2.5	-0.6	0.0	-943	0.1	0.0	-943

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Limited Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	0.9	0.2	0.6	0.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0	212	0.0	0.0	223
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*104*	*0.4*	*0.0*	*115*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.2	71.2	-520.8	-361.9	-88.9	-2.2	-0.5	11.6	-95.9	-66.3	-16.3	-0.4	-36,962	0.6	-0.1	-36,989

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.6*	*38.1*	*48.8*	*0.6*	*0.6*	*0.2*	*0.3*	*7.0*	*8.9*	*0.1*	*0.1*	*0.0*	*3,099*	*0.2*	*0.1*	*3,129*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.4	17.6	-378.2	-273.2	-67.7	-1.9	-1.2	3.2	-69.0	-49.9	-12.4	-0.3	-31,295	0.0	-0.4	-31,423
SVAB																
Locomotive Operation	*0.4*	*10.2*	*13.0*	*0.2*	*0.1*	*0.0*	*0.1*	*1.9*	*2.4*	*0.0*	*0.0*	*0.0*	*825*	*0.1*	*0.0*	*833*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.0	9.1	-11.0	-13.6	-3.3	-0.1	0.0	1.7	-2.0	-2.5	-0.6	0.0	-943	0.1	0.0	-943
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	0.7	0.2	0.5	0.1	0.0	0.0	0.1	0.0	0.1	0.0	0.0	180	0.0	0.0	189

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Limited Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	3.3	78.8	100.9	1.2	1.1	0.4	0.6	14.4	18.4	0.2	0.2	0.1	6,407	0.5	0.2	6,469
Locomotive LMF Idle	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	26	0.0	0.0	26
Locomotive Station Idle	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17	0.0	0.0	17
Hydrogen Fuel Transport	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	30	0.0	0.0	30
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*104*	*0.4*	*0.0*	*115*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.2	70.8	-520.6	-362.4	-89.1	-2.2	-0.5	11.5	-95.8	-66.4	-16.3	-0.4	-37,144	0.6	-0.2	-37,181

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.6*	*38.1*	*48.8*	*0.6*	*0.6*	*0.2*	*0.3*	*7.0*	*8.9*	*0.1*	*0.1*	*0.0*	*3,099*	*0.2*	*0.1*	*3,129*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.4	17.6	-378.2	-273.2	-67.7	-1.9	-1.2	3.2	-69.0	-49.9	-12.4	-0.3	-31,295	0.0	-0.4	-31,423
SVAB																
Locomotive Operation	*0.4*	*10.2*	*13.0*	*0.2*	*0.1*	*0.0*	*0.1*	*1.9*	*2.4*	*0.0*	*0.0*	*0.0*	*825*	*0.1*	*0.0*	*833*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.0	9.1	-11.0	-13.6	-3.3	-0.1	0.0	1.7	-2.0	-2.5	-0.6	0.0	-943	0.1	0.0	-943
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	31	0.0	0.0	31

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) No Project, 8 Train, with Full Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	2.4	0.6	1.6	0.4	0.0	0.0	0.4	0.1	0.3	0.1	0.0	566	0.0	0.1	594
Bus Bridge	*0.1*	*0.3*	*0.5*	*0.1*	*0.0*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*43*	*0.0*	*0.0*	*45*
Connecting Transit	*0.7*	*13.3*	*7.0*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*109*	*0.4*	*0.0*	*120*
Avoided VMT and Trips	*-10.5*	*-24.9*	*-559.5*	*-327.1*	*-81.5*	*-2.5*	*-1.9*	*-4.5*	*-102.1*	*-59.7*	*-14.9*	*-0.4*	*-41,287*	*-0.3*	*-0.6*	*-41,477*
Net Total	-3.5	-3.1	-547.5	-318.0	-78.8	-2.2	-0.9	-2.0	-100.7	-58.3	-14.5	-0.4	-37,458	0.2	-0.2	-37,504

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
SVAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	2.0	0.5	1.3	0.4	0.0	0.0	0.4	0.1	0.2	0.1	0.0	481	0.0	0.1	504

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Full Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	1.5	0.4	1.0	0.3	0.0	0.0	0.3	0.1	0.2	0.0	0.0	354	0.0	0.1	371
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	105	0.4	0.0	116
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-7.6	-622.3	-362.7	-89.9	-2.6	-1.1	-2.8	-114.4	-66.4	-16.5	-0.5	-43,269	0.2	-0.3	-43,351

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	1.2	0.3	0.8	0.2	0.0	0.0	0.2	0.1	0.2	0.0	0.0	300	0.0	0.0	315

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Full Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	2.4	0.6	1.6	0.4	0.0	0.0	0.4	0.1	0.3	0.1	0.0	566	0.0	0.1	594
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*104*	*0.4*	*0.0*	*115*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-6.7	-622.0	-362.1	-89.8	-2.5	-1.1	-2.6	-114.3	-66.3	-16.5	-0.5	-43,058	0.2	-0.3	-43,130

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	2.0	0.5	1.3	0.4	0.0	0.0	0.4	0.1	0.2	0.1	0.0	481	0.0	0.1	504

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 8 Train, with Full Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.1	1.3	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	80	0.0	0.0	81
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*104*	*0.4*	*0.0*	*115*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-7.7	-621.4	-363.6	-90.2	-2.6	-1.1	-2.8	-114.2	-66.6	-16.6	-0.5	-43,544	0.1	-0.3	-43,643

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.1	1.4	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	82	0.0	0.0	82

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Section 2.7.4 Opening (2032) 12-Trains

Opening (2032) No Project, 12 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	8.1	191.7	245.3	2.9	2.8	0.9	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Locomotive LMF Idle	0.0	0.8	1.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Locomotive Station Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	0.1	0.5	0.7	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	62	0.0	0.0	64
Connecting Transit	1.1	19.2	11.0	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	112	0.4	0.0	124
Avoided VMT and Trips	-18.8	-45.8	-841.5	-421.3	-105.3	-3.5	-3.4	-8.4	-153.6	-76.9	-19.2	-0.6	-58,565	-0.5	-0.9	-58,859
Net Total	-3.2	172.7	-578.8	-410.7	-100.1	-2.4	-0.8	29.9	-106.6	-75.2	-18.4	-0.4	-38,945	1.2	-0.2	-38,967

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	3.1	73.7	94.4	1.1	1.1	0.3	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,050.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-11.2	-28.1	-495.4	-278.7	-69.7	-2.3	-2.0	-5.1	-90.4	-50.9	-12.7	-0.4	-37,764	-0.3	-0.6	-37,950
Total	-8.1	45.6	-401.0	-277.6	-68.6	-1.9	-1.5	8.3	-73.2	-50.7	-12.5	-0.4	-31,771	0.2	-0.4	-31,899
SVAB																
Locomotive Operation	2.0	48.3	61.9	0.7	0.7	0.2	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,964.8
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-1.9	-4.4	-82.9	-40.6	-10.2	-0.3	-0.3	-0.8	-15.1	-7.4	-1.9	-0.1	-5,728	0.0	-0.1	-5,757
Total	0.1	43.9	-21.0	-39.9	-9.5	-0.1	0.0	8.0	-3.8	-7.3	-1.7	0.0	-1,801	0.3	0.0	-1,792

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 12 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	8.1	191.7	245.3	2.9	2.8	0.9	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Locomotive LMF Idle	0.0	0.8	1.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Locomotive Station Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	119
Avoided VMT and Trips	-20.3	-51.1	-939.2	-471.2	-117.8	-3.9	-3.7	-9.3	-171.4	-86.0	-21.5	-0.7	-65,494	-0.5	-1.1	-65,822
Net Total	-4.8	166.8	-677.3	-460.7	-112.6	-2.8	-1.1	28.9	-124.5	-84.3	-20.6	-0.5	-45,941	1.2	-0.3	-45,999

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	3.1	73.7	94.4	1.1	1.1	0.3	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,050.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-12.0	-31.0	-545.9	-307.8	-77.0	-2.5	-2.2	-5.7	-99.6	-56.2	-14.0	-0.5	-41,700	-0.3	-0.7	-41,904.3
Total	-8.9	42.8	-451.5	-306.7	-75.9	-2.2	-1.6	7.8	-82.4	-56.0	-13.9	-0.4	-35,707	0.1	-0.5	-35,854
SVAB																
Locomotive Operation	2.0	48.3	61.9	0.7	0.7	0.2	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,964.8
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-2.0	-4.9	-92.1	-45.2	-11.3	-0.4	-0.4	-0.9	-16.8	-8.3	-2.1	-0.1	-6,379	-0.1	-0.1	-6,411
Total	0.0	43.4	-30.3	-44.5	-10.6	-0.2	0.0	7.9	-5.5	-8.1	-1.9	0.0	-2,452	0.3	0.0	-2,446

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) No Project, 12 Train, with Limited Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	3.6	1.0	1.6	0.5	0.0	0.0	0.7	0.2	0.3	0.1	0.0	822	0.0	0.1	861
Bus Bridge	0.1	0.5	0.7	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	62	0.0	0.0	64
Connecting Transit	1.1	19.2	11.0	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	112	0.4	0.0	124
Avoided VMT and Trips	-18.8	-45.8	-841.5	-421.3	-105.3	-3.5	-3.4	-8.4	-153.6	-76.9	-19.2	-0.6	-58,565	-0.5	-0.9	-58,859
Net Total	-8.5	48.6	-741.1	-411.1	-101.5	-2.9	-1.8	7.3	-136.2	-75.3	-18.6	-0.5	-48,495	0.4	-0.3	-48,576

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.1	25.0	32.0	0.4	0.4	0.1	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-11.2	-28.1	-495.4	-278.7	-69.7	-2.3	-2.0	-5.1	-90.4	-50.9	-12.7	-0.4	-37,764	-0.3	-0.6	-37,950
Total	-10.1	-3.2	-463.5	-278.3	-69.3	-2.1	-1.9	-0.6	-84.6	-50.8	-12.7	-0.4	-35,735	-0.1	-0.5	-35,901
SVAB																
Locomotive Operation	0.7	16.4	20.9	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-1.9	-4.4	-82.9	-40.6	-10.2	-0.3	-0.3	-0.8	-15.1	-7.4	-1.9	-0.1	-5,728	0.0	-0.1	-5,757
Total	-1.2	12.0	-61.9	-40.4	-9.9	-0.3	-0.2	2.2	-11.3	-7.4	-1.8	0.0	-4,399	0.1	-0.1	-4,415
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	3.0	0.9	1.4	0.4	0.0	0.0	0.6	0.2	0.2	0.1	0.0	697	0.0	0.1	731

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 12 Train, with Limited Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	2.2	0.6	1.0	0.3	0.0	0.0	0.4	0.1	0.2	0.1	0.0	513	0.0	0.1	538
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	108	0.4	0.0	120
Avoided VMT and Trips	-20.3	-51.1	-939.2	-471.2	-117.8	-3.9	-3.7	-9.3	-171.4	-86.0	-21.5	-0.7	-65,494	-0.5	-1.1	-65,822
Net Total	-10.2	41.4	-840.1	-461.7	-114.1	-3.3	-2.1	6.0	-154.2	-84.5	-20.9	-0.6	-55,799	0.4	-0.5	-55,930

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.1	25.0	32.0	0.4	0.4	0.1	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-12.0	-31.0	-545.9	-307.8	-77.0	-2.5	-2.2	-5.7	-99.6	-56.2	-14.0	-0.5	-41,700	-0.3	-0.7	-41,904
Total	-10.9	-6.0	-513.9	-307.4	-76.6	-2.4	-2.0	-1.1	-93.8	-56.1	-14.0	-0.4	-39,671	-0.2	-0.6	-39,856
SVAB																
Locomotive Operation	0.7	16.4	20.9	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-2.0	-4.9	-92.1	-45.2	-11.3	-0.4	-0.4	-0.9	-16.8	-8.3	-2.1	-0.1	-6,379	-0.1	-0.1	-6,411
Total	-1.3	11.5	-71.2	-45.0	-11.1	-0.3	-0.2	2.1	-13.0	-8.2	-2.0	-0.1	-5,049	0.1	-0.1	-5,068
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	1.9	0.5	0.8	0.2	0.0	0.0	0.3	0.1	0.2	0.0	0.0	436	0.0	0.1	457

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 12 Train, with Limited Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	3.6	1.0	1.6	0.5	0.0	0.0	0.7	0.2	0.3	0.1	0.0	822	0.0	0.1	861
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	119
Avoided VMT and Trips	-20.3	-51.1	-939.2	-471.2	-117.8	-3.9	-3.7	-9.3	-171.4	-86.0	-21.5	-0.7	-65,494	-0.5	-1.1	-65,822
Net Total	-10.2	42.8	-839.7	-461.1	-114.0	-3.3	-2.1	6.3	-154.2	-84.4	-20.9	-0.6	-55,491	0.4	-0.4	-55,608

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.1*	*25.0*	*32.0*	*0.4*	*0.4*	*0.1*	*0.2*	*4.6*	*5.8*	*0.1*	*0.1*	*0.0*	*2,029*	*0.2*	*0.1*	*2,049*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-12.0*	*-31.0*	*-545.9*	*-307.8*	*-77.0*	*-2.5*	*-2.2*	*-5.7*	*-99.6*	*-56.2*	*-14.0*	*-0.5*	*-41,700*	*-0.3*	*-0.7*	*-41,904*
Total	-10.9	-6.0	-513.9	-307.4	-76.6	-2.4	-2.0	-1.1	-93.8	-56.1	-14.0	-0.4	-39,671	-0.2	-0.6	-39,856
SVAB																
Locomotive Operation	*0.7*	*16.4*	*20.9*	*0.2*	*0.2*	*0.1*	*0.1*	*3.0*	*3.8*	*0.0*	*0.0*	*0.0*	*1,330*	*0.1*	*0.0*	*1,342*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-2.0*	*-4.9*	*-92.1*	*-45.2*	*-11.3*	*-0.4*	*-0.4*	*-0.9*	*-16.8*	*-8.3*	*-2.1*	*-0.1*	*-6,379*	*-0.1*	*-0.1*	*-6,411*
Total	-1.3	11.5	-71.2	-45.0	-11.1	-0.3	-0.2	2.1	-13.0	-8.2	-2.0	-0.1	-5,049	0.1	-0.1	-5,068
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	3.0	0.9	1.4	0.4	0.0	0.0	0.6	0.2	0.2	0.1	0.0	697	0.0	0.1	731

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Opening (2032) Project, 12 Train, with Limited Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.1	2.2	1.3	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	80	0.0	0.0	81
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	1.1	19.2	10.8	7.2	2.1	0.3	0.2	2.9	1.7	1.1	0.3	0.0	3,766	0.0	0.4	3,875
Station and Maintenance	6.3	5.8	4.1	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	107	0.4	0.0	119
Avoided VMT and Trips	-20.3	-51.1	-939.2	-471.2	-117.8	-3.9	-3.7	-9.3	-171.4	-86.0	-21.5	-0.7	-65,494	-0.5	-1.1	-65,822
Net Total	-10.1	41.4	-839.4	-462.6	-114.4	-3.3	-2.1	6.0	-154.1	-84.7	-21.0	-0.6	-56,232	0.4	-0.6	-56,388

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.1*	*25.0*	*32.0*	*0.4*	*0.4*	*0.1*	*0.2*	*4.6*	*5.8*	*0.1*	*0.1*	*0.0*	*2,029*	*0.2*	*0.1*	*2,049*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-12.0*	*-31.0*	*-545.9*	*-307.8*	*-77.0*	*-2.5*	*-2.2*	*-5.7*	*-99.6*	*-56.2*	*-14.0*	*-0.5*	*-41,700*	*-0.3*	*-0.7*	*-41,904*
Total	-10.9	-6.0	-513.9	-307.4	-76.6	-2.4	-2.0	-1.1	-93.8	-56.1	-14.0	-0.4	-39,671	-0.2	-0.6	-39,856
SVAB																
Locomotive Operation	*0.7*	*16.4*	*20.9*	*0.2*	*0.2*	*0.1*	*0.1*	*3.0*	*3.8*	*0.0*	*0.0*	*0.0*	*1,330*	*0.1*	*0.0*	*1,342*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-2.0*	*-4.9*	*-92.1*	*-45.2*	*-11.3*	*-0.4*	*-0.4*	*-0.9*	*-16.8*	*-8.3*	*-2.1*	*-0.1*	*-6,379*	*-0.1*	*-0.1*	*-6,411*
Total	-1.3	11.5	-71.2	-45.0	-11.1	-0.3	-0.2	2.1	-13.0	-8.2	-2.0	-0.1	-5,049	0.1	-0.1	-5,068
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.1	2.2	1.3	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	82	0.0	0.0	82

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Section 2.7.5 Horizon (2040) 12-Trains

Horizon (2040) No Project, 12 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	8.1	191.7	245.3	2.9	2.8	0.9	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Locomotive LMF Idle	0.0	0.8	1.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Locomotive Station Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	0.1	0.4	0.6	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	51	0.0	0.0	53
Connecting Transit	0.7	13.3	7.0	7.1	2.0	0.2	0.1	2.0	1.0	1.1	0.3	0.0	3,111	0.0	0.3	3,215
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	109	0.4	0.0	121
Avoided VMT and Trips	-10.5	-24.9	-559.5	-327.1	-81.5	-2.5	-1.9	-4.5	-102.1	-59.7	-14.9	-0.4	-41,287	-0.3	-0.6	-41,477
Net Total	4.6	187.5	-301.1	-316.6	-76.4	-1.4	0.6	32.8	-55.8	-58.0	-14.0	-0.3	-22,336	1.4	0.1	-22,259

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	3.1	73.7	94.4	1.1	1.1	0.3	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,050.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-4.4	55.2	-289.6	-244.4	-60.2	-1.5	-0.8	10.1	-52.9	-44.6	-11.0	-0.3	-24,862	0.3	-0.3	-24,947
SVAB																
Locomotive Operation	2.0	48.3	61.9	0.7	0.7	0.2	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,964.8
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	1.6	47.4	41.3	-11.0	-2.2	0.1	0.3	8.7	7.5	-2.0	-0.4	0.0	2,420	0.3	0.1	2,451

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	8.1	191.7	245.3	2.9	2.8	0.9	1.5	35.0	44.8	0.5	0.5	0.2	15,577	1.2	0.4	15,726
Locomotive LMF Idle	0.0	0.8	1.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	62	0.0	0.0	62
Locomotive Station Idle	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	41	0.0	0.0	41
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	0.7	13.3	6.9	7.1	2.0	0.2	0.1	2.0	1.0	1.1	0.3	0.0	3,111	0.0	0.3	3,215
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	105	0.4	0.0	116
Avoided VMT and Trips	-11.5	-28.1	-633.4	-371.1	-92.5	-2.8	-2.1	-5.1	-115.6	-67.7	-16.9	-0.5	-46,839	-0.3	-0.7	-47,054
Net Total	3.6	183.9	-375.7	-360.7	-87.4	-1.7	0.4	32.2	-69.4	-66.1	-16.0	-0.3	-27,944	1.4	0.1	-27,894

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	3.1	73.7	94.4	1.1	1.1	0.3	0.6	13.5	17.2	0.2	0.2	0.1	5,993	0.5	0.2	6,050.7
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551.4
Total	-4.9	53.2	-332.6	-272.7	-67.2	-1.7	-0.9	9.7	-60.7	-49.8	-12.3	-0.3	-28,401	0.3	-0.4	-28,501
SVAB																
Locomotive Operation	2.0	48.3	61.9	0.7	0.7	0.2	0.4	8.8	11.3	0.1	0.1	0.0	3,927	0.3	0.1	3,964.8
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Total	1.6	47.3	37.8	-13.0	-2.7	0.1	0.3	8.6	6.9	-2.4	-0.5	0.0	2,159	0.3	0.1	2,189

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) No Project, 12 Train, with Limited Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	2.4	0.6	1.6	0.4	0.0	0.0	0.4	0.1	0.3	0.1	0.0	566	0.0	0.1	594
Bus Bridge	*0.1*	*0.4*	*0.6*	*0.1*	*0.0*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*51*	*0.0*	*0.0*	*53*
Connecting Transit	*0.7*	*13.3*	*7.0*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*109*	*0.4*	*0.0*	*121*
Avoided VMT and Trips	*-10.5*	*-24.9*	*-559.5*	*-327.1*	*-81.5*	*-2.5*	*-1.9*	*-4.5*	*-102.1*	*-59.7*	*-14.9*	*-0.4*	*-41,287*	*-0.3*	*-0.6*	*-41,477*
Net Total	-0.7	62.3	-463.8	-317.0	-77.8	-1.9	-0.4	10.0	-85.5	-58.1	-14.3	-0.4	-32,141	0.6	0.0	-32,136

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.1	25.0	32.0	0.4	0.4	0.1	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-6.4	6.5	-352.0	-245.2	-60.9	-1.7	-1.2	1.2	-64.2	-44.7	-11.1	-0.3	-28,827	0.0	-0.4	-28,949
SVAB																
Locomotive Operation	0.7	16.4	20.9	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	0.3	15.5	0.4	-11.4	-2.7	0.0	0.1	2.8	0.1	-2.1	-0.5	0.0	-178	0.1	0.0	-172
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	2.0	0.5	1.3	0.4	0.0	0.0	0.4	0.1	0.2	0.1	0.0	481	0.0	0.1	504

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Limited Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	1.5	0.4	1.0	0.3	0.0	0.0	0.3	0.1	0.2	0.0	0.0	354	0.0	0.1	371
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	105	0.4	0.0	117
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.8	57.7	-538.7	-361.7	-89.0	-2.3	-0.6	9.1	-99.1	-66.3	-16.3	-0.4	-37,961	0.6	-0.2	-37,992

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	1.1	25.0	32.0	0.4	0.4	0.1	0.2	4.6	5.8	0.1	0.1	0.0	2,029	0.2	0.1	2,049
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.9	4.4	-395.1	-273.4	-67.9	-1.9	-1.3	0.8	-72.1	-49.9	-12.4	-0.4	-32,365	-0.1	-0.5	-32,503
SVAB																
Locomotive Operation	0.7	16.4	20.9	0.2	0.2	0.1	0.1	3.0	3.8	0.0	0.0	0.0	1,330	0.1	0.0	1,342
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.2	15.3	-3.1	-13.5	-3.2	0.0	0.0	2.8	-0.6	-2.5	-0.6	0.0	-438	0.1	0.0	-434
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	1.2	0.3	0.8	0.2	0.0	0.0	0.2	0.1	0.2	0.0	0.0	300	0.0	0.0	315

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Limited Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.0	2.4	0.6	1.6	0.4	0.0	0.0	0.4	0.1	0.3	0.1	0.0	566	0.0	0.1	594
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*105*	*0.4*	*0.0*	*116*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.7	58.6	-538.4	-361.1	-88.8	-2.2	-0.6	9.3	-99.1	-66.2	-16.3	-0.4	-37,750	0.6	-0.1	-37,771

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.1*	*25.0*	*32.0*	*0.4*	*0.4*	*0.1*	*0.2*	*4.6*	*5.8*	*0.1*	*0.1*	*0.0*	*2,029*	*0.2*	*0.1*	*2,049*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.9	4.4	-395.1	-273.4	-67.9	-1.9	-1.3	0.8	-72.1	-49.9	-12.4	-0.4	-32,365	-0.1	-0.5	-32,503
SVAB																
Locomotive Operation	*0.7*	*16.4*	*20.9*	*0.2*	*0.2*	*0.1*	*0.1*	*3.0*	*3.8*	*0.0*	*0.0*	*0.0*	*1,330*	*0.1*	*0.0*	*1,342*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.2	15.3	-3.1	-13.5	-3.2	0.0	0.0	2.8	-0.6	-2.5	-0.6	0.0	-438	0.1	0.0	-434
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	2.0	0.5	1.3	0.4	0.0	0.0	0.4	0.1	0.2	0.1	0.0	481	0.0	0.1	504

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Limited Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	2.7	64.9	83.1	1.0	0.9	0.3	0.5	11.8	15.2	0.2	0.2	0.1	5,274	0.4	0.1	5,324
Locomotive LMF Idle	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	21	0.0	0.0	21
Locomotive Station Idle	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14	0.0	0.0	14
Hydrogen Fuel Transport	0.1	1.3	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	80	0.0	0.0	81
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*105*	*0.4*	*0.0*	*116*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-1.7	57.6	-537.8	-362.6	-89.2	-2.3	-0.6	9.1	-99.0	-66.4	-16.4	-0.4	-38,235	0.6	-0.2	-38,283

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*1.1*	*25.0*	*32.0*	*0.4*	*0.4*	*0.1*	*0.2*	*4.6*	*5.8*	*0.1*	*0.1*	*0.0*	*2,029*	*0.2*	*0.1*	*2,049*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-6.9	4.4	-395.1	-273.4	-67.9	-1.9	-1.3	0.8	-72.1	-49.9	-12.4	-0.4	-32,365	-0.1	-0.5	-32,503
SVAB																
Locomotive Operation	*0.7*	*16.4*	*20.9*	*0.2*	*0.2*	*0.1*	*0.1*	*3.0*	*3.8*	*0.0*	*0.0*	*0.0*	*1,330*	*0.1*	*0.0*	*1,342*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	0.2	15.3	-3.1	-13.5	-3.2	0.0	0.0	2.8	-0.6	-2.5	-0.6	0.0	-438	0.1	0.0	-434
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.1	1.4	1.3	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	82	0.0	0.0	82

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) No Project, 12 Train, with Full Hydrogen Penetration due to Legislation

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	3.5	1.0	2.3	0.7	0.0	0.0	0.6	0.2	0.4	0.1	0.0	849	0.0	0.1	890
Bus Bridge	*0.1*	*0.4*	*0.6*	*0.1*	*0.0*	*0.0*	*0.0*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*51*	*0.0*	*0.0*	*53*
Connecting Transit	*0.7*	*13.3*	*7.0*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*109*	*0.4*	*0.0*	*121*
Avoided VMT and Trips	*-10.5*	*-24.9*	*-559.5*	*-327.1*	*-81.5*	*-2.5*	*-1.9*	*-4.5*	*-102.1*	*-59.7*	*-14.9*	*-0.4*	*-41,287*	*-0.3*	*-0.6*	*-41,477*
Net Total	-3.5	-1.9	-547.1	-317.2	-78.6	-2.2	-0.9	-1.7	-100.7	-58.1	-14.4	-0.4	-37,166	0.2	-0.1	-37,197

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
Total	-7.5	-18.5	-384.0	-245.6	-61.2	-1.8	-1.4	-3.4	-70.1	-44.8	-11.2	-0.3	-30,856	-0.2	-0.5	-30,997
SVAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Total	-0.4	-0.9	-20.5	-11.7	-2.9	-0.1	-0.1	-0.2	-3.7	-2.1	-0.5	0.0	-1,507	0.0	0.0	-1,514
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	3.0	0.8	2.0	0.6	0.0	0.0	0.5	0.1	0.4	0.1	0.0	721	0.0	0.1	756

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Full Hydrogen Variant 1 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	2.7	0.7	1.7	0.5	0.0	0.0	0.5	0.1	0.3	0.1	0.0	637	0.0	0.1	668
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	6.3	5.8	3.9	0.4	0.2	0.0	0.9	0.1	0.1	0.0	0.0	0.0	105	0.4	0.0	117
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-6.4	-621.9	-361.9	-89.7	-2.5	-1.1	-2.6	-114.3	-66.3	-16.5	-0.5	-42,986	0.2	-0.2	-43,054

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	2.2	0.6	1.5	0.4	0.0	0.0	0.4	0.1	0.3	0.1	0.0	541	0.0	0.1	567

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Full Hydrogen Variant 2 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.0	3.5	1.0	2.3	0.7	0.0	0.0	0.6	0.2	0.4	0.1	0.0	849	0.0	0.1	890
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*105*	*0.4*	*0.0*	*116*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-5.5	-621.7	-361.3	-89.6	-2.5	-1.1	-2.4	-114.3	-66.2	-16.4	-0.5	-42,774	0.2	-0.2	-42,832

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB and SCAB	0.0	3.0	0.8	2.0	0.6	0.0	0.0	0.5	0.1	0.4	0.1	0.0	721	0.0	0.1	756

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Horizon (2040) Project, 12 Train, with Full Hydrogen Variant 3 Conditions

Net Total Emissions in the SJVAB/SJVAPCD

	Max pounds per day						Tons per year						Metric tons per year			
Source	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
Locomotive Operation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive LMF Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Locomotive Station Idle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0
Hydrogen Fuel Transport	0.1	2.0	1.9	0.0	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	121	0.0	0.0	121
Bus Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Connecting Transit	*0.7*	*13.3*	*6.9*	*7.1*	*2.0*	*0.2*	*0.1*	*2.0*	*1.0*	*1.1*	*0.3*	*0.0*	*3,111*	*0.0*	*0.3*	*3,215*
Station and Maintenance	*6.3*	*5.8*	*3.9*	*0.4*	*0.2*	*0.0*	*0.9*	*0.1*	*0.1*	*0.0*	*0.0*	*0.0*	*105*	*0.4*	*0.0*	*116*
Avoided VMT and Trips	*-11.5*	*-28.1*	*-633.4*	*-371.1*	*-92.5*	*-2.8*	*-2.1*	*-5.1*	*-115.6*	*-67.7*	*-16.9*	*-0.5*	*-46,839*	*-0.3*	*-0.7*	*-47,054*
Net Total	-4.5	-7.1	-620.8	-363.6	-90.2	-2.6	-1.1	-2.7	-114.1	-66.6	-16.6	-0.5	-43,503	0.2	-0.3	-43,602

Avoided VMT Emissions in the SFBAAB/SVAB

	Max pounds per day						Tons per year						Metric tons per year			
Location	ROG	NOX	CO	PM10	PM2.5	SO2	ROG	NOX	CO	PM10	PM2.5	SO2	CO2	CH4	N2O	CO2e
SFBAAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-8.0*	*-20.5*	*-427.0*	*-273.8*	*-68.3*	*-2.1*	*-1.5*	*-3.7*	*-77.9*	*-50.0*	*-12.5*	*-0.4*	*-34,395*	*-0.2*	*-0.5*	*-34,551*
Total	-8.0	-20.5	-427.0	-273.8	-68.3	-2.1	-1.5	-3.7	-77.9	-50.0	-12.5	-0.4	-34,395	-0.2	-0.5	-34,551
SVAB																
Locomotive Operation	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0*	*0.0*	*0.0*	*0*
Hydrogen Fuel Transport	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided VMT and Trips	*-0.4*	*-1.1*	*-24.0*	*-13.7*	*-3.4*	*-0.1*	*-0.1*	*-0.2*	*-4.4*	*-2.5*	*-0.6*	*0.0*	*-1,768*	*0.0*	*0.0*	*-1,776*
Total	-0.4	-1.1	-24.0	-13.7	-3.4	-0.1	-0.1	-0.2	-4.4	-2.5	-0.6	0.0	-1,768	0.0	0.0	-1,776
Potential Additional Emissions from Hydrogen Fuel Transport																
SSAB, SCAB, and MDAB	0.1	2.0	1.9	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	123	0.0	0.0	123

Note regarding non-locomotive sources: Daily results reflect the highest of the winter and summer outputs from CalEEMod/EMFAC.

Section 3. Well-to-Wheels Greenhouse Gas Analysis

Describes the assumptions, data, emission factors, and calculation methods for the analysis of well-to-wheel GHG emissions for the project Variants. Detailed emissions results for the 8-train and 12-train scenarios are presented.

Well-to-Wheel Greenhouse Gas Analysis Methods for Hydrogen and Renewable Diesel Locomotive Fuels

In response to the state's zero emission goals, the Caltrans Operations and Maintenance, Division of Rail and Maintenance is planning to convert its full fleet of intercity locomotives to zero emission hydrogen vehicles by 2035. Unlike their diesel counterparts, hydrogen fuel cell locomotives do not generate any direct greenhouse gas (GHG) emissions during use (the only byproducts of hydrogen combustion are water and heat). The primary source of emissions associated with hydrogen locomotives is upstream of their use and occurs through hydrogen production, processing, and transport. The amount of emissions generated by these "upstream" sources can vary substantively depending on how the hydrogen fuel is produced (e.g., solar, natural gas), known as the "pathway", and the distance required for transport to end use.

Three Project variants are being analyzed in this EIR that consider future penetration of San Joaquins hydrogen locomotives units. Variant H1 assumes green[1] hydrogen would be generated on-site and used to fuel three daily roundtrips to Natomas under opening (2032) year conditions and the horizon (2040) year "limited" hydrogen deployment scenario. A second 2040 scenario is being evaluated that assumes full zero-emissions deployment with operation of eight San Joaquins hydrogen trains ("full" hydrogen deployment scenario). Under the full hydrogen deployment scenario, a portion of the required hydrogen fuel would be produced off-site and delivered to the ACE Merced Layover and Maintenance Facility by on-road truck.

Variants H2 and H3 assume either green hydrogen (Variants H2A and H3A) or gray hydrogen[2] (Variants H2B and H3B) would be processed exclusively off-site and transported to the Ace Merced Layover and Maintenance Facility (ACE Layover Facility) for the purpose of fueling future hydrogen powered trains under the conditions and scenarios described above for Variant H1. Variant H2 assumes the off-site hydrogen would be transported by on-road trucks whereas Variant H3 assumes the off-site hydrogen would be transported by freight rail. The EIR also analyzes the Project condition, which assumes all San Joaquins locomotives would use renewable diesel[3].

Given that the three Project variants differ in terms of the hydrogen pathway (i.e., green vs. gray) and production location (i.e., on-site vs. off-site), a well-to-wheel (WTW) GHG analysis was conducted for the Project and Project variants. WTW analysis considers GHGs emitted through each stage of the fuel's production, processing, distribution, and end use. This appendix describes the analysis methodology and assumptions. Results are given for informational purposes to enable a comparison between the hydrogen fuel options being considered by the Project variants, and also to compare those fuel options to the Project, which would use renewable diesel.

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[1] *Green hydrogen* is produced through a process of electrolysis powered by renewable energies, like wind and solar.

[2] *Gray hydrogen* is produced mainly from natural gas, using a process called steam methane reforming, which brings together natural gas and heated water in the form of steam. The output is hydrogen, but carbon dioxide is also produced as a by-product.

[3] *Renewable diesel* is chemically identical to petroleum diesel but is produced by renewable resources, such as refined vegetable oils, rendered animal fats, and food waste.

San Joaquins Fuel Consumption

The WTW analysis for the Project and Project variants considers eight daily roundtrips, including five daily roundtrips from Oakland to Merced, two daily roundtrips from Sacramento to Merced, and one daily roundtrip from Natomas to Merced. This condition is referend to as the "Conceptual Service Plan". The analysis also quantifies WTW GHG emission under "Cumulative Conditions", which considers a service plan that includes up to 12 daily roundtrips to Merced. The number of hydrogen locomotives assumed under the Project variants in the Conceptual Service Plan and Cumulative Conditions differs, as well as the hydrogen pathway and production location. Specifically:

- Variant H1 assumes green hydrogen would be generated on-site and used to fuel up to three daily roundtrips to Natomas under opening (2032) year conditions and the limited hydrogen deployment scenario for horizon (2040) year conditions. The remaining five daily roundtrips would be provided by locomotives that use renewable diesel. Under the full hydrogen deployment scenario, all eight San Joaquins locomotives would be fueled by hydrogen, three of which would use fuel from on-site green production and five would be fueled by either green (Variant H1A) or gray (Variant H1B) off-site production. These same parameters were assumed for the horizon (2032) year and limited hydrogen deployment scenario for the Cumulative Conditions analysis, with the addition of four locomotives that would use renewable diesel. Under the full hydrogen deployment scenario for the Cumulative Conditions analysis, all 12 locomotives would be fueled by hydrogen (three by on-site green production and nine by either green or gray off-site production).
- Variants H2A and H3A assume green hydrogen produced off-site would be used to fuel up to three daily roundtrips to Natomas under opening (2032) year conditions and the limited hydrogen deployment scenario for horizon (2040) year conditions. The remaining five daily roundtrips would be provided by San Joaquins locomotives that use renewable diesel. Under the full hydrogen deployment scenario, all eight San Joaquins locomotives would be fueled by off-site green hydrogen. Under opening (2032) year conditions and the limited hydrogen deployment scenario for horizon (2040) year conditions for the Cumulative Conditions analysis, eight locomotives would be fueled by green hydrogen produced off-site and four locomotives would use renewable diesel. Under the full hydrogen deployment scenario for the Cumulative Conditions analysis, all 12 locomotives would be fueled by off-site green hydrogen.
- Variants H2B and H3B assume the same number of hydrogen and renewable diesel San Joaquins locomotives as Variants H2A and H3A. However, instead of green hydrogen, Variants H2B and H3B assume gray hydrogen production.

Tables 1 and 2 summarize expected fuel consumption for the Project variants and Project under the Conceptual Service Plan and Cumulative Conditions, respectively.

Table 1. Annual San Joaquins Fuel Consumption for the Project and Project Variants under the Conceptual Service Plan

Scenario	Hydrogen Pathway (kilograms per year)			Renewable Diesel (gallons per year)
	On-Site Green	Off-Site Green	Off-Site Gray	
Opening (2032) Year and Horizon (2040) Year "Limited" Hydrogen Deployment Scenario				
Variant H1	219,000	0	0	1,016,086
Variants H2A, H3A	0	219,000	0	1,016,086
Variants H2B, H3B	0	0	219,000	1,016,086
Horizon (2040) Year "Full" Hydrogen Deployment Scenario				
Variant H1A	219,000	365,000	0	0
Variant H1B	219,000	0	365,000	0
Variants H2A, H3A	0	584,000	0	0
Variants H2B, H3B	0	0	584,000	0
Project	0	0	0	1,647,517

Table 2. Annual San Joaquins Fuel Consumption for the Project and Project Variants under Cumulative Conditions

Scenario	Hydrogen Pathway (kilograms per year)			Renewable Diesel (gallons per year)
	On-Site Green	Off-Site Green	Off-Site Gray	
Opening (2032) Year and Horizon (2040) Year "Limited" Hydrogen Deployment Scenario				
Variant H1A	219,000	365,000	0	848,842
Variant H1B	219,000	0	365,000	848,842
Variants H2A, H3A	0	584,000	0	848,842
Variants H2B, H3B	0	0	584,000	848,842
Horizon (2040) Year "Full" Hydrogen Deployment Scenario				
Variant H1A	219,000	657,000	0	0
Variant H1B	219,000	0	657,000	0
Variants H2A, H3A	0	876,000	0	0
Variants H2B, H3B	0	0	876,000	0
Project	0	0	0	2,507,371

Emission Factors

Hydrogen

Emission factors for the carbon intensity of hydrogen were obtained from the Greenhouse Gases, Regulated Emissions, and Energy Use in Technologies Model (GREET). GREET provides emission factors for hydrogen production through the point of production, otherwise known as "well to gate" or WTG. As discussed above, hydrogen can be produced by several different pathways, each with specific a WTG carbon intensity. Table 3 presents the WTG emission factors for five green hydrogen pathways, as well as for gray hydrogen produced through steam methane reforming (SMR).

Table 3. Well-to-Gate Carbon Intensity of Green and Gray Hydrogen Production

Pathway	Carbon Intensity (kg CO_2e/kg H_2)
Green	
Solar	0.00
Nuclear	0.20
Landfill Gas	0.57
Byproducts from chlorine plants	1.52
Biomass	1.53
Gray - SRM	9.66

Source: GREET

On-site green hydrogen would be produced using solar energy. Off-site green hydrogen supplied to the Project variants is likely to be produced using one or more of the five green hydrogen pathways shown in Table 3. For the purposes of this analysis, WTG emissions for off-site green hydrogen were assessed using a banded analysis of available carbon intensities from GREET (see Table 3). A minimum value of 0.00 kilograms (kg) carbon dioxide equivalent (CO_2e) per kg hydrogen was used to define the lower band and a maximum value of 1.53 kg CO_2e per kg hydrogen was used to define the upper band. A WTG intensity of 9.66 kg CO_2e per kg hydrogen was used for gray hydrogen, as shown in Table 3.

Once hydrogen is produced, it is either piped to fueling stations or transported by trucks with gas tube trailers or on freight rail. The analysis of Variant H1 (full hydrogen deployment scenario only and Cumulative Conditions) and Variant H2 assumes off-site green and gray hydrogen would be transported via tube trailer, which has a carbon intensity of 8.34 grams CO_2e per kg hydrogen per mile (equivalent to 0.00834 kg CO_2e per the same unit) (GREET). The analysis of Variant H3 assumes the off-site green and gray hydrogen would be transported via freight rail, which has a carbon intensity of 14.56 kg CO_2e per gallon of diesel fuel consumed by the locomotive (CARB 2023a). Once the gaseous hydrogen has been delivered, it must undergo compression and precooling (C&P) before it can be dispensed into a vehicle. The carbon intensity of the C&P process is 12.4 grams CO_2e per megajoule (MJ), which equates to 1.49 kg CO_2e per kg hydrogen (GREET).

Production (WTG), transportation, and C&P comprise the stages considered in the WTW analysis of hydrogen (as noted above, combustion of the fuel does not generate emissions). Table 4 summarizes these factors for the hydrogen pathways analyzed in this analysis.

Table 4. Emission Factors for Well-to-Wheel Analysis of Hydrogen by Analysis Pathway

Pathway	WTG (kg CO_2e/kg H_2)	Transportation [a]		C&P (kg CO_2e/kg H_2)
		Onroad (kg CO_2e/kg H_2-mile)	Freight Rail (kg CO_2e/gallon) [b]	
On-site Green (solar)	0.00	- [c]	- [c]	1.49
Off-site Green (solar)	0.00	0.00834	14.56	1.49
Off-site Green (biomass)	1.53	0.00834	14.56	1.49
Off-site Gray (SRM)	9.66	0.00834	14.56	1.49

Source: GREET

Notes:

[a] The analysis of Variant H1 (full hydrogen deployment scenario only and Cumulative Conditions) and Variant H2 assumes off-site green and gray hydrogen would be transported via tube trailer, whereas the analysis of Variant H3 assumes off-site green and gray hydrogen would be transported via freight rail.
[c] San Joaquins fuel consumption was calculated based on the quantity of transported hydrogen and the distance traveled (see *Transport Assumptions for Off-Site Hydrogen*), assuming an average freight fuel efficiency of 0.13 miles per gallon (Bureau of Transportation Statistics 2023).
[b] Fuel produced on-site. Therefore, there would be no delivery or transportation emissions.

Renewable Diesel

Like hydrogen, renewable diesel can be produced by different pathways (or "feedstocks"), each with varying carbon intensities. The finished fuel must also be transported to fuel stations for end use. There are more than 20 renewable diesel pathways included in the California Air Resources Board's (CARB) (2023a) Current Fuel Pathways spreadsheet for the Low Carbon Fuel Standard. Given the number of potential pathways for renewable diesel, this analysis uses CARB's default carbon intensity for 2023. The default is calculated based on the volume-weighted average carbon intensity for renewable diesel in the prior data year (i.e., 2022). CARB's (2023b) 2023 default carbon intensity for renewable diesel is 37.93 grams CO_2e per MJ, which equates to 5.24 kg CO_2e per gallon renewable diesel. This weighted average value is a WTW carbon intensity, inclusive of emissions associated with the complete lifecycle of renewable diesel in California (CARB 2023b).

Transport Assumptions for Off-Site Hydrogen

As shown in Table 4, the carbon intensity of transporting hydrogen from the central production plant to the Merced Layover Facility for end use depends on the number of miles traveled. Several industrial gas companies throughout California currently produce gray hydrogen. These facilities are primarily located in the San Francisco Bay Area and Southern California. There are also several current and proposed facilities capable of producing and processing green hydrogen. Most of these facilities are in the Central Valley and Southern California. (Gilani and Sanchez 2020.) Off-site hydrogen supplied to the Project variants is likely to be sourced from one or more processing facility, although the specific location is currently unknown. Given federal and state support for hydrogen, it is also likely additional hydrogen fuel producing facilities will be operational by the time Project service is provided in 2032.[4]

For the purposes of this analysis, transportation requirements for off-site hydrogen were assessed using a banded analysis of potential travel distance based on the location of gray and green hydrogen facilities reported in Gilani and Sanchez (2020). For each hydrogen pathway, the on-road and freight rail travel distance to the Ace Layover Facility from the nearest and furthest production facility was measured in GIS. These distances were used to define the minimum and maximum transport scenarios for green and gray hydrogen. Table 5 summarizes the scenario distances.

[4] For example, Pacific Gas and Electric Company, along with the City of Lodi and Northern CaliforniaPower Agency, have developed plans to transform the existing natural gas-fired Lodi Energy Center into the Lodi Hydrogen Center. If approved and constructed, the Lodi Hydrogen Center will produce green and store hydrogen. The proposed Lodi Hydrogen Center is approximately 170 miles roundtrip to the Ace Layover Facility.

Table 5. On-road and Freight Rail Travel Distance Scenarios for Delivery of Off-site Green and Gray Hydrogen (roundtrip miles)

Transport Scenario	Green Hydrogen [a]	Gray Hydrogen [b]
Onroad Vehicle		
Minimum	204	240
Maximum	758	584
Freight Rail (Variant H3 only)		
Minimum	176	235
Maximum	788	708

Notes

[a] Potential locations of green hydrogen production are based on Table 3 in Gilani and Sanchez (2020). Minimum travel distance measured from Kings County to the Ace Layover Facility; maximum travel distance measured from Palm Springs to the Ace Layover Facility. As noted in the footnote above, the proposed Lodi Hydrogen Center is approximately 170 miles roundtrip to the Ace Layover Facility. This distance is less than assumed under the minimum transport scenario (204 miles roundtrip). Thus, if the Lodi Hydrogen Center is constructed and hydrogen is sourced from this facility, GHG emissions from the delivery of off-site green hydrogen under the minimum transport scenario will be less than estimated in this analysis.

[b] Potential locations of gray hydrogen production are based on Table 2 in Gilani and Sanchez (2020). Minimum travel distance measured from Benicia to the Ace Layover Facility; maximum travel distance measured from Wilmington to the Ace Layover Facility.

Calculation Method

CO_2e emissions from annual hydrogen and renewable diesel locomotive fuel consumption were calculated using the assumptions defined above and the following equations. Total WTW emissions for the Project and Project Variants were calculated using the products from Equations 1 through 5.

Equation 1 **On-Site Green (Solar) Hydrogen**

$$E_{OnSolar} = CI_{C\&P} \times F_{PV-OnGreen}$$

Where,

$E_{OnSolar}$ = emissions for on-site green hydrogen (kg CO_2e per year)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen)

$F_{PV-OnGreen}$ = fuel consumption from on-site green production for the Project variant being analyzed (kg per year) (Table 1)

Equation 2a **Off-site Green (Solar) Hydrogen Transported by On-Road Truck**

$$E_{OffSolar-TS} = (CI_{OT} \times D_S \times F_{PV-OffGreen}) + (CI_{C\&P} \times F_{PV-OffGreen})$$

Where,

$E_{OffSolar-TS}$ = emissions for off-site green (solar) hydrogen for the on-road transport scenario (kg CO_2e per year)

CI_{OT} = carbon intensity for on-road transportation (0.00834 kg CO_2e per kg hydrogen per mile) (Table 4)

D_S = roundtrip distance for the on-road transport scenario (miles) (Table 5)

$F_{PV-OffGreen}$ = fuel consumption from on-site green production for the Project variant being analyzed (kg per year) (Table 1)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

Equation 2b **Off-Site Green (Solar) Hydrogen Transported by Freight Rail**

$$E_{OffSolar-TS} = (CI_{RT} \times (1 \div (FE \times F_{PV-OffGreen})) \times (F_{PV-OffGreen} \times D_S)) + (CI_{C\&P} \times F_{PV-OffGreen} \times C)$$

Where,

$E_{OffSolar-TS}$ = emissions for off-site green (solar) hydrogen for the freight rail transport scenario (kg CO_2e per year)

CI_{RT} = carbon intensity for freight rail transportation (14.56 kg CO_2e per gallon of diesel) (Table 4)

FE = fuel efficiency of freight rail (0.13 miles per gallon) (Bureau of Transportation Statistics 2023)

$F_{PV-OffGreen}$ = fuel consumption from on-site green production for the Project variant being analyzed (ton per year) (converted from Table 1 assuming 0.001102 ton per kilogram)

D_S = roundtrip distance for the freight rail transport scenario (miles) (Table 5)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

C = conversion from tons to kilograms (907.185 kilograms per ton)

Equation 3a **Off-Site Green (Biomass) Hydrogen by On-Road Truck**

$$E_{OffBio-TS} = (CI_{WTG} \times F_{PV-OffGreen}) + (CI_{OT} \times D_S \times F_{PV-OffGreen}) + (CI_{C\&P} \times F_{PV-OffGreen})$$

Where,

$E_{OffBio-TS}$ = emissions for off-site green (biomass) hydrogen for the on-road transport scenario (kg CO_2e per year)

CI_{WTG} = carbon intensity for production (1.53 kg CO_2e per kg hydrogen) (Table 4)

$F_{PV-OffGreen}$ = fuel consumption from off-site green production for the Project variant being analyzed (kg per year) (Table 1)

CI_{OT} = carbon intensity for on-road transportation (0.00834 kg CO_2e per kg hydrogen per mile) (Table 4)

D_S = roundtrip distance for the on-road transport scenario (miles) (Table 5)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

Equation 3b Off-Site Green (Biomass) Hydrogen by Freight Rail

$$E_{OffBio-TS} = (CI_{WTG} \times F_{PV-OffGreen} \times C) + (CI_{RT} \times (1 \div (FE \times F_{PV-OffGreen})) \times (F_{PV-OffGreen} \times D_S)) + (CI_{C\&P} \times F_{PV-OffGreen} \times C)$$

Where,

$E_{OffBio-TS}$ = emissions for off-site green (biomass) hydrogen for the freight rail transport scenario (kg CO_2e per year)

CI_{WTG} = carbon intensity for production (1.53 kg CO_2e per kg hydrogen) (Table 4)

$F_{PV-OffGreen}$ = fuel consumption from on-site green production for the Project variant being analyzed (ton per year) (converted from Table 1 assuming 0.001102 ton per kilogram)

C = conversion from tons to kilograms (907.185 kilograms per ton)

CI_{RT} = carbon intensity for freight rail transportation (14.56 kg CO_2e per gallon of diesel) (Table 4)

FE = fuel efficiency of freight rail (0.13 miles per gallon) (Bureau of Transportation Statistics 2023)

D_S = roundtrip distance for the on-road transport scenario (miles) (Table 5)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

Equation 4a Off-Site Gray (SRM) Hydrogen by On-Road Truck

$$E_{OffSRM-TS} = (CI_{WTG} \times F_{PV-OffGray}) + (CI_{OT} \times D_S \times F_{PV-OffGray}) + (CI_{C\&P} \times F_{PV-OffGray})$$

Where,

$E_{OffSRM-TS}$ = emissions for off-site gray (SRM) hydrogen for the on-road transport scenario (kg CO_2e per year)

CI_{WTG} = carbon intensity for production (9.66 kg CO_2e per kg hydrogen) (Table 4)

$F_{PV-OffGray}$ = fuel consumption from off-site gray production for Project variant being analyzed (kg per year) (Table 1)

CI_{OT} = carbon intensity for on-road transportation (0.00834 kg CO_2e per kg hydrogen per mile) (Table 4)

D_S = roundtrip distance for the on-road transport scenario (miles) (Table 5)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

Equation 4b Off-Site Gray (SRM) Hydrogen by Freight Rail

$$E_{OffSRM-TS} = (CI_{WTG} \times F_{PV-OffGray} \times C) + (CI_{RT} \times (1 \div (FE \times F_{PV-OffGray})) \times (F_{PV-OffGray} \times D_S)) + (CI_{C\&P} \times F_{PV-OffGray} \times C)$$

Where,

$E_{OffSRM-TS}$ = emissions for off-site gray (SRM) hydrogen for the freight rail transport scenario (kg CO_2e per year)

CI_{WTG} = carbon intensity for production (9.66 kg CO_2e per kg hydrogen) (Table 4)

$F_{PV-OffGray}$ = fuel consumption from off-site gray production for the Project variant being analyzed (ton per year) (converted from Table 1 assuming 0.001102 ton per kilogram)

C = conversion from tons to kilograms (907.185 kilograms per ton)

CI_{RT} = carbon intensity for freight rail transportation (14.56 kg CO_2e per gallon of diesel) (Table 4)

FE = fuel efficiency of freight rail (0.13 miles per gallon) (Bureau of Transportation Statistics 2023)

D_S = roundtrip distance for the freight rail transport scenario (miles) (Table 5)

$CI_{C\&P}$ = carbon intensity for compression and precooling (1.49 kg CO_2e per kg hydrogen) (Table 4)

Equation 5 Renewable Diesel

$$E_{RD} = CI_{WTW} \times F_{PV-RD}$$

Where,

E_{RD} = emissions for renewable diesel (kg CO_2e per year)

CI_{WTW} = carbon intensity for renewable diesel (5.24 kg CO_2e per gallon renewable diesel)

F_{PV} = renewable diesel fuel consumption for the Project or Project variant being analyzed (gallons per year) (Table 1)

Results

Table 6 summarizes annual CO_2e emissions for the Project and Project variants under the Conceptual Service Plan for the scenarios discussed above. Table 7 summarizes annual CO_2e emissions under Cumulative Conditions.

Table 6. Annual Well-to-Wheel Emissions for the Project and Project Variants under the Conceptual Service Plan

Condition	Hydrogen Pathway and Transportation Scenario (if applicable)	kg CO_2e per year		Metric tons CO_2e per year
		Hydrogen	Renewable Diesel	
Opening (2032) Year and Horizon (2040) Year "Limited" Hydrogen Deployment Scenario				
H1	On-site green (solar)	326,099	5,319,281	5,645
H2A	Off-site green via on-road truck			
	(solar) minimum transport scenario	698,697	5,319,281	6,018
	(solar) maximum transport scenario	1,710,555	5,319,281	7,030
	(biomass) minimum transport scenario	1,033,767	5,319,281	6,353
	(biomass) maximum transport scenario	2,045,625	5,319,281	7,365
H2B	Off-site gray via on-road truck			
	Minimum transport scenario	2,879,989	5,319,281	8,199
	Maximum transport scenario	3,508,291	5,319,281	8,828
H3A	Off-site green via freight rail			
	(solar) minimum transport scenario	680,587	5,319,281	6,000
	(solar) maximum transport scenario	345,517	5,319,281	5,665
	(biomass) minimum transport scenario	747,869	5,319,281	6,067
	(biomass) maximum transport scenario	412,799	5,319,281	5,732
H3B	Off-site gray via freight rail			
	Minimum transport scenario	2,467,508	5,319,281	7,787
	Maximum transport scenario	2,519,544	5,319,281	7,839
Horizon (2040) Year "Full" Hydrogen Deployment Scenario				
H1A	On-site green (solar) and off-site green			
	(solar) minimum transport scenario	1,490,593	0	1,491
	(solar) maximum transport scenario	3,177,025	0	3,177
	(biomass) minimum transport scenario	2,049,043	0	2,049
	(biomass) maximum transport scenario	3,735,475	0	3,735
H1B	On-site green (solar) and off-site gray			
	Minimum transport scenario	5,126,081	0	5,126
	Maximum transport scenario	6,173,251	0	6,173
H2A	Off-site green via on-road truck			
	(solar) minimum transport scenario	1,863,191	0	1,863
	(solar) maximum transport scenario	4,561,481	0	4,561
	(biomass) minimum transport scenario	2,756,711	0	2,757
	(biomass) maximum transport scenario	5,455,001	0	5,455
H2B	Off-site gray via on-road truck			
	Minimum transport scenario	7,679,971	0	7,680
	Maximum transport scenario	9,355,444	0	9,355
H3A	Off-site green via freight rail			
	(solar) minimum transport scenario	1,814,898	0	1,815
	(solar) maximum transport scenario	921,378	0	921
	(biomass) minimum transport scenario	1,994,318	0	1,994
	(biomass) maximum transport scenario	1,100,798	0	1,101
H3B	Off-site gray via freight rail			
	Minimum transport scenario	6,580,020	0	6,580
	Maximum transport scenario	6,718,784	0	6,719
Project	n/a [a]	0	8,624,868	8,625

Notes:

[a] All trains would use renewable diesel (see Table 1).

Table 7. Annual Well-to-Wheel Emissions for the Project and Project Variants under Cumulative Conditions

Condition	Hydrogen Pathway and Transportation Scenario (if applicable)	kg CO_2e per year		Metric tons CO_2e per year
		Hydrogen	Renewable Diesel	
Opening (2032) Year and Horizon (2040) Year "Limited" Hydrogen Deployment Scenario				
H1A	On-site green (solar) and off-site green			
	(solar) minimum transport scenario	1,490,593	4,443,747	5,934
	(solar) maximum transport scenario	3,177,025	4,443,747	7,621
	(biomass) minimum transport scenario	2,049,043	4,443,747	6,493
	(biomass) maximum transport scenario	3,735,475	4,443,747	8,179
H1B	On-site green (solar) and off-site gray			
	Minimum transport scenario	5,126,081	4,443,747	9,570
	Maximum transport scenario	6,173,251	4,443,747	10,617
H2A	Off-site green via on-road truck			
	(solar) minimum transport scenario	1,863,191	4,443,747	6,307
	(solar) maximum transport scenario	4,561,481	4,443,747	9,005
	(biomass) minimum transport scenario	2,756,711	4,443,747	7,200
	(biomass) maximum transport scenario	5,455,001	4,443,747	9,899
H2B	Off-site gray via on-road truck			
	Minimum transport scenario	7,679,971	4,443,747	12,124
	Maximum transport scenario	9,355,444	4,443,747	13,799
H3A	Off-site green via freight rail			
	(solar) minimum transport scenario	1,814,898	4,443,747	6,259
	(solar) maximum transport scenario	921,378	4,443,747	5,365
	(biomass) minimum transport scenario	1,994,318	4,443,747	6,438
	(biomass) maximum transport scenario	1,100,798	4,443,747	5,545
H3B	Off-site gray via freight rail			
	Minimum transport scenario	6,580,020	4,443,747	11,024
	Maximum transport scenario	6,718,784	4,443,747	11,163
Horizon (2040) Year "Full" Hydrogen Deployment Scenario				
H1A	On-site green (solar) and off-site green			
	(solar) minimum transport scenario	2,422,189	0	2,422
	(solar) maximum transport scenario	5,457,765	0	5,458
	(biomass) minimum transport scenario	3,427,399	0	3,427
	(biomass) maximum transport scenario	6,462,975	0	6,463
H1B	On-site green (solar) and off-site gray			
	Minimum transport scenario	8,966,066	0	8,966
	Maximum transport scenario	10,850,973	0	10,851
H2A	Off-site green via on-road truck			
	(solar) minimum transport scenario	2,794,786	0	2,795
	(solar) maximum transport scenario	6,842,222	0	6,842
	(biomass) minimum transport scenario	4,135,066	0	4,135
	(biomass) maximum transport scenario	8,182,502	0	8,183
H2B	Off-site gray via on-road truck			
	Minimum transport scenario	11,519,957	0	11,520
	Maximum transport scenario	14,033,166	0	14,033
H3A	Off-site green via freight rail			
	(solar) minimum transport scenario	2,722,347	0	2,722
	(solar) maximum transport scenario	1,382,067	0	1,382
	(biomass) minimum transport scenario	2,991,476	0	2,991
	(biomass) maximum transport scenario	1,651,196	0	1,651
H3B	Off-site gray via freight rail			

	Minimum transport scenario	9,870,030	0	9,870
	Maximum transport scenario	10,078,176	0	10,078
Project	n/a [a]	0	13,126,265	13,126

Notes:

[a] All trains would use renewable diesel (see Table 1).

References Cited

Bureau of Transportation Statistics. 2023. Table 4-17: Class I Rail Freight Fuel Consumption and Travel. Available: <https://www.bts.gov/content/class-i-rail-freight-fuel-consumption-and-travel>. Accessed: January 5, 2024.

California Air Resources Board. 2023a. Current Fuel Pathways. Last Revised: September 29, 2023. Available: <LCFS Pathway Certified Carbon Intensities | California Air Resources Board>. Accessed: October 3, 2023.

California Air Resources Board. 2023b. Substitute Pathways and Default Blend Levels for LCFS Reporting for Specific Fuel Transaction Types. Last Revised: September 29, 2023. Available: <Substitute Pathways and Default Blend Levels for LCFS Reporting for Specific Fuel Transaction Types | California Air Resources Board>. Accessed: October 3, 2023.

Gilani, Harris and Sanchez, Daniel. 2020. *Introduction to the Hydrogen Market in California*. September.

Section 4. Construction HRA

Presents the AERMOD model inputs and outputs for the Project and H1 Variant construction health risk assessment (HRA).

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** Lakes Environmental AERMOD MPI
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** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 12.0.0
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 1/2/2024
** FILE: E:\MITC CONSTRUCTION\MITC CONSTRUCT\MITC CONSTRUCT.ADI
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** AERMOD CONTROL PATHWAY
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**
CO STARTING
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   MODELOPT DFAULT CONC
   AVERTIME PERIOD
   URBANOPT 86333 MERCED_US_CENSUS_2020
   POLLUTID DPM
   FLAGPOLE 1.80
   RUNORNOT RUN
   ERRORFIL "MITC CONSTRUCT.ERR"
CO FINISHED
**
**************************************
** AERMOD SOURCE PATHWAY
**************************************
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
   LOCATION PAREA1       AREAPOLY   719851.101  4132574.523       48.780
** DESCRSRC LAYOVER MAINTENANCE TRACK INSTALL
   LOCATION AREA1        AREA       722155.113  4131370.737       50.680
** DESCRSRC HSR PLATFORM
   LOCATION PAREA2       AREAPOLY   722427.265  4131309.632       50.350
** DESCRSRC HSR STATION PARKING
   LOCATION PAREA3       AREAPOLY   720652.893  4132426.790       48.770
** DESCRSRC LMF PARKING FOR CO-FACILITY USAGE
   LOCATION PAREA4       AREAPOLY   722379.399  4131366.765       50.290
** DESCRSRC AERIAL GUIDEWAY SEGMENT 1
   LOCATION PAREA5       AREAPOLY   721755.842  4131633.662       50.290
** DESCRSRC AERIAL GUIDEWAY SEGMENT 2
   LOCATION PAREA6       AREAPOLY   721115.006  4131958.410       48.770
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** DESCRSRC AERIAL GUIDEWAY SEGMENT #3
   LOCATION PAREA7       AREAPOLY   721272.424  4131849.172       48.770
** DESCRSRC SHIFTED SPUR TRACK #1
   LOCATION PAREA8       AREAPOLY   720898.554  4133172.869       48.970
** DESCRSRC SHIFTED SPUR TRACK #2
   LOCATION PAREA9       AREAPOLY   719942.029  4133058.916       48.160
** DESCRSRC SHIFTED SPUR TRACK #3
   LOCATION PAREA10      AREAPOLY   721789.174  4132759.777       51.710
** DESCRSRC MAIN LINE TRACK
   LOCATION PAREA11      AREAPOLY   720303.360  4133110.888       48.200
** DESCRSRC ACCES TRACK NO 1
   LOCATION PAREA13      AREAPOLY   720280.882  4133128.870       48.300
** DESCRSRC ACCESS TRACK NO. 3
   LOCATION PAREA12      AREAPOLY   720988.186  4133091.407       48.880
** DESCRSRC ACCESS TRACK NO. 2
   LOCATION PAREA14      AREAPOLY   719808.834  4132999.343       47.810
** DESCRSRC SOLAR PANELS SOURCE #1
   LOCATION PAREA15      AREAPOLY   719602.544  4132850.647       47.800
** DESCRSRC SOLAR PANELS SOURCE #2
   LOCATION PAREA16      AREAPOLY   720197.390  4132683.968       48.350
** DESCRSRC SOLAR PANEL #3
   LOCATION PAREA17      AREAPOLY   720175.982  4132532.580       48.830
** DESCRSRC SOLAR PANELS #4
   LOCATION PAREA18      AREAPOLY   720662.257  4132352.138       48.770
** DESCRSRC SOLAR PANEL AREA #5
   LOCATION PAREA19      AREAPOLY   720735.657  4132336.847       48.770
** DESCRSRC SOLAR PANEL #6 COINCIDENT WITH LMF PARKING
   LOCATION PAREA20      AREAPOLY   720524.632  4132469.884       48.870
** DESCRSRC HYDROGEN GENERATION AND STORAGE AREA
** SOURCE PARAMETERS **
   SRCPARAM PAREA1         1.5E-08     4.100        14     3.810
   AREAVERT PAREA1       719851.101 4132574.523 720388.949 4132578.767
   AREAVERT PAREA1       720887.546 4132591.497 720929.980 4132588.314
   AREAVERT PAREA1       720986.204 4132584.071 721024.395 4132556.489
   AREAVERT PAREA1       721050.916 4132529.968 721053.038 4132489.656
   AREAVERT PAREA1       721054.098 4132353.868 720903.459 4132358.111
   AREAVERT PAREA1       720750.697 4132428.127 720497.155 4132508.751
   AREAVERT PAREA1       720341.211 4132571.341 719853.223 4132568.158
   SRCPARAM AREA1              0.0     4.100   250.000    54.000    23.180
3.810
   SRCPARAM PAREA2        2.08E-07     4.100         4     3.810
   AREAVERT PAREA2       722427.265 4131309.632 722407.798 4131267.702
   AREAVERT PAREA2       722524.603 4131219.782 722541.076 4131269.200
   SRCPARAM PAREA3         1.5E-08     4.100         8     3.810
   AREAVERT PAREA3       720652.893 4132426.790 720768.734 4132382.235
   AREAVERT PAREA3       720738.183 4132333.862 720692.356 4132352.957
   AREAVERT PAREA3       720656.712 4132372.052 720668.169 4132386.054
   AREAVERT PAREA3       720640.164 4132397.511 720647.802 4132425.517
   SRCPARAM PAREA4        7.31E-08     4.100         4     3.810
   AREAVERT PAREA4       722379.399 4131366.765 722370.093 4131348.151
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AREAVERT PAREA4       721750.527 4131612.065 721759.834 4131632.673
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AREAVERT PAREA9      719751.730 4132585.415 719699.285 4132603.396
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AREAVERT PAREA10     721641.376 4132824.461 721718.679 4132792.252
SRCPARAM PAREA11      3.58E-08     4.100        24     3.810
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AREAVERT PAREA11     720207.454 4133001.496 720205.956 4132920.575
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AREAVERT PAREA11     720297.366 4132574.416 720315.348 4132583.407
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AREAVERT PAREA11     720226.935 4132691.301 720220.941 4132860.634
AREAVERT PAREA11     720216.445 4132949.047 720217.944 4133010.487
AREAVERT PAREA11     720229.932 4133055.443 720241.920 4133074.923
AREAVERT PAREA11     720262.900 4133088.410 720282.381 4133101.897
SRCPARAM PAREA13      3.58E-08     4.100        29     3.810
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AREAVERT PAREA13     720207.454 4133091.407 720060.599 4133064.434
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AREAVERT PAREA13      719608.044 4132836.658 719633.519 4132905.590
AREAVERT PAREA13      719666.486 4132955.041 719736.917 4133001.496
AREAVERT PAREA13      719855.301 4133038.959 719930.227 4133056.941
AREAVERT PAREA13      720026.133 4133077.921 720150.510 4133104.894
AREAVERT PAREA13      720226.935 4133116.882
SRCPARAM PAREA12       3.58E-08     4.100        25     3.810
AREAVERT PAREA12      720988.186 4133091.407 720976.198 4133073.425
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AREAVERT PAREA12      720403.761 4133155.844 720331.832 4133118.381
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AREAVERT PAREA12      720475.690 4133250.251 720522.145 4133293.708
AREAVERT PAREA12      720553.614 4133308.694 720604.564 4133314.688
AREAVERT PAREA12      720654.015 4133316.186 720704.965 4133289.213
AREAVERT PAREA12      720772.399 4133235.266 720823.348 4133200.800
AREAVERT PAREA12      720889.284 4133154.345
SRCPARAM PAREA14       3.71E-11     4.100        12     3.810
AREAVERT PAREA14      719808.834 4132999.343 719817.300 4132599.329
AREAVERT PAREA14      719732.641 4132626.843 719692.428 4132650.124
AREAVERT PAREA14      719652.214 4132669.173 719641.632 4132688.221
AREAVERT PAREA14      719633.166 4132732.667 719633.166 4132798.278
AREAVERT PAREA14      719652.214 4132868.122 719683.962 4132925.267
AREAVERT PAREA14      719724.175 4132969.713 719753.805 4132984.528
SRCPARAM PAREA15       3.71E-07     4.100        11     3.810
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AREAVERT PAREA15      719556.669 4132826.180 719521.498 4132817.005
AREAVERT PAREA15      719552.082 4132679.380 719576.548 4132653.384
AREAVERT PAREA15      719617.836 4132633.505 719604.073 4132679.380
AREAVERT PAREA15      719599.486 4132731.372 719593.369 4132777.247
AREAVERT PAREA15      719596.427 4132826.180
SRCPARAM PAREA16       3.71E-11     4.100         6     3.810
AREAVERT PAREA16      720197.390 4132683.968 720039.886 4132682.439
AREAVERT PAREA16      720046.003 4132593.747 720235.620 4132601.393
AREAVERT PAREA16      720208.095 4132636.564 720200.449 4132664.089
SRCPARAM PAREA17       3.71E-11     4.100        17     3.810
AREAVERT PAREA17      720175.982 4132532.580 720180.570 4132547.872
AREAVERT PAREA17      720212.682 4132546.343 720301.374 4132517.289
AREAVERT PAREA17      720364.070 4132471.414 720429.824 4132424.009
AREAVERT PAREA17      720487.932 4132375.076 720555.216 4132310.851
AREAVERT PAREA17      720582.741 4132263.447 720625.557 4132209.926
AREAVERT PAREA17      720561.332 4132225.218 720533.807 4132248.155
AREAVERT PAREA17      720477.228 4132315.438 720440.528 4132372.018
AREAVERT PAREA17      720393.124 4132422.480 720319.724 4132472.943
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   AREAVERT PAREA17      720252.440 4132506.584
   SRCPARAM PAREA18       3.71E-11     4.100         5     3.810
   AREAVERT PAREA18      720662.257 4132352.138 720720.366 4132329.201
   AREAVERT PAREA18      720728.012 4132326.143 720718.837 4132301.676
   AREAVERT PAREA18      720653.082 4132338.376
   SRCPARAM PAREA19       3.71E-11     4.100         6     3.810
   AREAVERT PAREA19      720735.657 4132336.847 720758.595 4132382.722
   AREAVERT PAREA19      720653.082 4132428.597 720642.378 4132401.072
   AREAVERT PAREA19      720669.903 4132385.780 720659.199 4132370.488
   SRCPARAM PAREA20       2.39E-07     4.100         5     3.810
   AREAVERT PAREA20      720524.632 4132469.884 720614.853 4132442.359
   AREAVERT PAREA20      720602.620 4132402.601 720565.920 4132398.013
   AREAVERT PAREA20      720506.282 4132454.593
   URBANSRC ALL

** VARIABLE EMISSIONS TYPE: "BY HOUR / SEVEN DAYS (HRDOW7)"
** VARIABLE EMISSION SCENARIO: "CONST HOURS"
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   EMISFACT AREA1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT AREA1        HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA1       HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA18      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA18      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA18      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA18      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA19      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA20      HRDOW7 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA20      HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP MAIN     AREA1 PAREA1 PAREA10 PAREA11 PAREA12 PAREA13 PAREA2
   SRCGROUP MAIN     PAREA4 PAREA5 PAREA6 PAREA7 PAREA8 PAREA9 PAREA3
   SRCGROUP SOLAR    PAREA14 PAREA15 PAREA16 PAREA17 PAREA18 PAREA19 PAREA20
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD RECEPTOR PATHWAY
**************************************
**
**
RE STARTING
   GRIDCART UCART1 STA
                  XYINC 721117.14 30 25.00 4132065.52 24 25.00
                  ELEV    1    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    1    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    1    48.80    48.80    49.10    49.10    49.50    49.90
                  ELEV    1    50.10    50.30    50.30    50.30    50.30    50.30
                  ELEV    1    50.30    50.40    50.60    50.60    50.60    50.60
                  ELEV    2    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    2    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    2    48.80    48.80    49.10    49.10    49.50    49.90
                  ELEV    2    50.10    50.30    50.30    50.30    50.30    50.30
                  ELEV    2    50.30    50.30    50.40    50.60    50.60    50.60
                  ELEV    3    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    3    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    3    48.80    48.80    48.80    49.10    49.60    49.90
                  ELEV    3    50.10    50.30    50.30    50.30    50.30    50.30
                  ELEV    3    50.30    50.30    50.30    50.40    50.50    50.60
                  ELEV    4    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    4    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    4    48.80    48.80    49.00    49.40    49.60    49.90
                  ELEV    4    50.10    50.30    50.30    50.30    50.30    50.30
                  ELEV    4    50.30    50.30    50.30    50.30    50.50    50.60
                  ELEV    5    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    5    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    5    48.80    48.80    49.10    49.40    49.60    49.90
                  ELEV    5    50.10    50.30    50.30    50.30    50.30    50.30
                  ELEV    5    50.30    50.30    50.30    50.30    50.50    50.60
                  ELEV    6    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    6    48.80    48.80    48.80    48.80    48.80    48.80
                  ELEV    6    48.80    48.80    49.10    49.40    49.60    49.90
```

ELEV	6	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	6	50.30	50.30	50.30	50.30	50.50	50.60
ELEV	7	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	7	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	7	48.80	48.80	49.10	49.40	49.60	49.90
ELEV	7	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	7	50.30	50.30	50.30	50.30	50.50	50.60
ELEV	8	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	8	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	8	48.80	48.80	49.10	49.40	49.60	49.90
ELEV	8	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	8	50.30	50.30	50.30	50.50	50.60	50.60
ELEV	9	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	9	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	9	48.90	49.00	49.30	49.40	49.60	49.90
ELEV	9	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	9	50.30	50.30	50.30	50.60	50.60	50.60
ELEV	10	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	10	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	10	48.90	49.10	49.40	49.50	49.80	49.90
ELEV	10	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	10	50.30	50.30	50.50	50.60	50.60	50.60
ELEV	11	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	11	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	11	48.90	49.10	49.40	49.70	49.90	50.00
ELEV	11	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	11	50.30	50.40	50.60	50.60	50.60	50.60
ELEV	12	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	12	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	12	48.90	49.10	49.40	49.70	49.90	50.00
ELEV	12	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	12	50.30	50.40	50.60	50.60	50.60	50.60
ELEV	13	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	13	48.80	48.80	48.80	48.80	48.80	49.00
ELEV	13	49.10	49.10	49.40	49.70	49.90	50.00
ELEV	13	50.10	50.30	50.30	50.30	50.30	50.30
ELEV	13	50.30	50.40	50.60	50.60	50.60	50.60
ELEV	14	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	14	48.80	48.80	48.80	48.80	48.80	49.00
ELEV	14	49.10	49.10	49.40	49.70	49.90	50.30
ELEV	14	50.50	50.50	50.30	50.30	50.30	50.30
ELEV	14	50.30	50.40	50.60	50.60	50.60	50.80
ELEV	15	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	15	48.80	48.80	48.80	48.80	48.80	49.00
ELEV	15	49.10	49.10	49.40	49.70	49.90	50.20
ELEV	15	50.50	50.50	50.30	50.30	50.30	50.30
ELEV	15	50.30	50.40	50.60	50.60	50.60	50.80
ELEV	16	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	16	48.80	48.80	48.80	48.80	48.90	49.00
ELEV	16	49.10	49.20	49.60	49.70	49.90	50.20

ELEV	16	50.40	50.60	50.40	50.30	50.30	50.30
ELEV	16	50.30	50.40	50.60	50.60	50.60	50.80
ELEV	17	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	17	48.80	48.80	48.80	48.80	49.00	49.10
ELEV	17	49.20	49.40	49.60	49.80	49.90	50.20
ELEV	17	50.40	50.50	50.60	50.30	50.30	50.30
ELEV	17	50.30	50.40	50.60	50.60	50.60	50.70
ELEV	18	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	18	48.80	48.80	48.80	48.80	49.00	49.10
ELEV	18	49.20	49.40	49.50	50.00	50.00	50.20
ELEV	18	50.30	50.40	50.60	50.30	50.30	50.30
ELEV	18	50.30	50.40	50.60	50.60	50.60	50.60
ELEV	19	48.90	49.00	48.80	48.80	48.80	49.00
ELEV	19	48.90	48.80	48.80	48.80	49.00	49.10
ELEV	19	49.20	49.40	49.70	50.00	50.00	50.20
ELEV	19	50.40	50.60	50.60	50.30	50.30	50.30
ELEV	19	50.30	50.40	50.60	50.60	50.60	50.80
ELEV	20	49.00	49.10	49.00	48.80	48.80	49.00
ELEV	20	49.10	49.00	49.00	49.00	49.10	49.20
ELEV	20	49.40	49.40	49.70	50.00	50.20	50.40
ELEV	20	50.60	50.60	50.60	50.30	50.30	50.30
ELEV	20	50.30	50.30	50.40	50.60	50.60	50.80
ELEV	21	49.10	49.10	49.00	48.80	48.80	49.00
ELEV	21	49.10	49.10	49.10	49.10	49.10	49.30
ELEV	21	49.40	49.40	49.70	50.00	50.10	50.30
ELEV	21	50.50	50.60	50.60	50.50	50.30	50.30
ELEV	21	50.30	50.30	50.30	50.60	50.60	50.70
ELEV	22	49.10	49.10	49.10	48.90	48.90	49.00
ELEV	22	49.10	49.10	49.10	49.10	49.20	49.40
ELEV	22	49.50	49.50	49.70	50.00	50.00	50.20
ELEV	22	50.40	50.60	50.60	50.70	50.50	50.40
ELEV	22	50.30	50.30	50.30	50.40	50.40	50.50
ELEV	23	49.10	49.10	49.10	49.10	49.10	49.10
ELEV	23	49.10	49.10	49.20	49.20	49.30	49.60
ELEV	23	49.70	49.70	49.80	50.00	50.00	50.20
ELEV	23	50.40	50.50	50.60	50.90	50.70	50.50
ELEV	23	50.40	50.30	50.30	50.30	50.30	50.40
ELEV	24	49.10	49.10	49.10	49.10	49.10	49.10
ELEV	24	49.10	49.20	49.40	49.40	49.40	49.60
ELEV	24	49.70	49.70	50.00	50.00	50.00	50.20
ELEV	24	50.30	50.40	50.60	50.90	50.90	50.80
ELEV	24	50.60	50.40	50.30	50.30	50.30	50.30
HILL	1	48.80	48.80	48.80	48.80	48.80	48.80
HILL	1	48.80	48.80	48.80	48.80	48.80	48.80
HILL	1	48.80	48.80	49.10	49.10	49.50	49.90
HILL	1	50.10	50.30	50.30	50.30	50.30	50.30
HILL	1	50.30	50.40	50.60	50.60	50.60	50.60
HILL	2	48.80	48.80	48.80	48.80	48.80	48.80
HILL	2	48.80	48.80	48.80	48.80	48.80	48.80
HILL	2	48.80	48.80	49.10	49.10	49.50	49.90

HILL	2	50.10	50.30	50.30	50.30	50.30	50.30
HILL	2	50.30	50.30	50.40	50.60	50.60	50.60
HILL	3	48.80	48.80	48.80	48.80	48.80	48.80
HILL	3	48.80	48.80	48.80	48.80	48.80	48.80
HILL	3	48.80	48.80	48.80	49.10	49.60	49.90
HILL	3	50.10	50.30	50.30	50.30	50.30	50.30
HILL	3	50.30	50.30	50.30	50.40	50.50	50.60
HILL	4	48.80	48.80	48.80	48.80	48.80	48.80
HILL	4	48.80	48.80	48.80	48.80	48.80	48.80
HILL	4	48.80	48.80	49.00	49.40	49.60	49.90
HILL	4	50.10	50.30	50.30	50.30	50.30	50.30
HILL	4	50.30	50.30	50.30	50.30	50.50	50.60
HILL	5	48.80	48.80	48.80	48.80	48.80	48.80
HILL	5	48.80	48.80	48.80	48.80	48.80	48.80
HILL	5	48.80	48.80	49.10	49.40	49.60	49.90
HILL	5	50.10	50.30	50.30	50.30	50.30	50.30
HILL	5	50.30	50.30	50.30	50.30	50.50	50.60
HILL	6	48.80	48.80	48.80	48.80	48.80	48.80
HILL	6	48.80	48.80	48.80	48.80	48.80	48.80
HILL	6	48.80	48.80	49.10	49.40	49.60	49.90
HILL	6	50.10	50.30	50.30	50.30	50.30	50.30
HILL	6	50.30	50.30	50.30	50.30	50.50	50.60
HILL	7	48.80	48.80	48.80	48.80	48.80	48.80
HILL	7	48.80	48.80	48.80	48.80	48.80	48.80
HILL	7	48.80	48.80	49.10	49.40	49.60	49.90
HILL	7	50.10	50.30	50.30	50.30	50.30	50.30
HILL	7	50.30	50.30	50.30	50.30	50.50	50.60
HILL	8	48.80	48.80	48.80	48.80	48.80	48.80
HILL	8	48.80	48.80	48.80	48.80	48.80	48.80
HILL	8	48.80	48.80	49.10	49.40	49.60	49.90
HILL	8	50.10	50.30	50.30	50.30	50.30	50.30
HILL	8	50.30	50.30	50.30	50.50	50.60	50.60
HILL	9	48.80	48.80	48.80	48.80	48.80	48.80
HILL	9	48.80	48.80	48.80	48.80	48.80	48.80
HILL	9	48.90	49.00	49.30	49.40	49.60	49.90
HILL	9	50.10	50.30	50.30	50.30	50.30	50.30
HILL	9	50.30	50.30	50.30	50.60	50.60	50.60
HILL	10	48.80	48.80	48.80	48.80	48.80	48.80
HILL	10	48.80	48.80	48.80	48.80	48.80	48.80
HILL	10	48.90	49.10	49.40	49.50	49.80	49.90
HILL	10	50.10	50.30	50.30	50.30	50.30	50.30
HILL	10	50.30	50.30	50.50	50.60	50.60	50.60
HILL	11	48.80	48.80	48.80	48.80	48.80	48.80
HILL	11	48.80	48.80	48.80	48.80	48.80	48.80
HILL	11	48.90	49.10	49.40	49.70	49.90	50.00
HILL	11	50.10	50.30	50.30	50.30	50.30	50.30
HILL	11	50.30	50.40	50.60	50.60	50.60	50.60
HILL	12	48.80	48.80	48.80	48.80	48.80	48.80
HILL	12	48.80	48.80	48.80	48.80	48.80	48.80
HILL	12	48.90	49.10	49.40	49.70	49.90	50.00

HILL	12	50.10	50.30	50.30	50.30	50.30	50.30
HILL	12	50.30	50.40	50.60	50.60	50.60	50.60
HILL	13	48.80	48.80	48.80	48.80	48.80	48.80
HILL	13	48.80	48.80	48.80	48.80	48.80	49.00
HILL	13	49.10	49.10	49.40	49.70	49.90	50.00
HILL	13	50.10	50.30	50.30	50.30	50.30	50.30
HILL	13	50.30	50.40	50.60	50.60	50.60	50.60
HILL	14	48.80	48.80	48.80	48.80	48.80	48.80
HILL	14	48.80	48.80	48.80	48.80	48.80	49.00
HILL	14	49.10	49.10	49.40	49.70	49.90	50.30
HILL	14	50.50	50.50	50.30	50.30	50.30	50.30
HILL	14	50.30	50.40	50.60	50.60	50.60	50.80
HILL	15	48.80	48.80	48.80	48.80	48.80	48.80
HILL	15	48.80	48.80	48.80	48.80	48.80	49.00
HILL	15	49.10	49.10	49.40	49.70	49.90	50.20
HILL	15	50.50	50.50	50.30	50.30	50.30	50.30
HILL	15	50.30	50.40	50.60	50.60	50.60	50.80
HILL	16	48.80	48.80	48.80	48.80	48.80	48.80
HILL	16	48.80	48.80	48.80	48.80	48.90	49.00
HILL	16	49.10	49.20	49.60	49.70	49.90	50.20
HILL	16	50.40	50.60	50.40	50.30	50.30	50.30
HILL	16	50.30	50.40	50.60	50.60	50.60	50.80
HILL	17	48.80	48.80	48.80	48.80	48.80	48.80
HILL	17	48.80	48.80	48.80	48.80	49.00	49.10
HILL	17	49.20	49.40	49.60	49.80	49.90	50.20
HILL	17	50.40	50.50	50.60	50.30	50.30	50.30
HILL	17	50.30	50.40	50.60	50.60	50.60	50.70
HILL	18	48.80	48.80	48.80	48.80	48.80	48.80
HILL	18	48.80	48.80	48.80	48.80	49.00	49.10
HILL	18	49.20	49.40	49.50	50.00	50.00	50.20
HILL	18	50.30	50.40	50.60	50.30	50.30	50.30
HILL	18	50.30	50.40	50.60	50.60	50.60	50.60
HILL	19	48.90	49.00	48.80	48.80	48.80	49.00
HILL	19	48.90	48.80	48.80	48.80	49.00	49.10
HILL	19	49.20	49.40	49.70	50.00	50.00	50.20
HILL	19	50.40	50.60	50.60	50.30	50.30	50.30
HILL	19	50.30	50.40	50.60	50.60	50.60	50.80
HILL	20	49.00	49.10	49.00	48.80	48.80	49.00
HILL	20	49.10	49.00	49.00	49.00	49.10	49.20
HILL	20	49.40	49.40	49.70	50.00	50.20	50.40
HILL	20	50.60	50.60	50.60	50.30	50.30	50.30
HILL	20	50.30	50.30	50.40	50.60	50.60	50.80
HILL	21	49.10	49.10	49.00	48.80	48.80	49.00
HILL	21	49.10	49.10	49.10	49.10	49.10	49.30
HILL	21	49.40	49.40	49.70	50.00	50.10	50.30
HILL	21	50.50	50.60	50.60	50.50	50.30	50.30
HILL	21	50.30	50.30	50.30	50.60	50.60	50.70
HILL	22	49.10	49.10	49.10	48.90	48.90	49.00
HILL	22	49.10	49.10	49.10	49.10	49.20	49.40
HILL	22	49.50	49.50	49.70	50.00	50.00	50.20

HILL	22	50.40	50.60	50.60	50.70	50.50	50.40
HILL	22	50.30	50.30	50.30	50.40	50.40	50.50
HILL	23	49.10	49.10	49.10	49.10	49.10	49.10
HILL	23	49.10	49.10	49.20	49.20	49.30	49.60
HILL	23	49.70	49.70	49.80	50.00	50.00	50.20
HILL	23	50.40	50.50	50.60	50.90	50.70	50.50
HILL	23	50.40	50.30	50.30	50.30	50.30	50.40
HILL	24	49.10	49.10	49.10	49.10	49.10	49.10
HILL	24	49.10	49.20	49.40	49.40	49.40	49.60
HILL	24	49.70	49.70	50.00	50.00	50.00	50.20
HILL	24	50.30	50.40	50.60	50.90	50.90	50.80
HILL	24	50.60	50.40	50.30	50.30	50.30	50.30
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80

FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80

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                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
GRIDCART UCART1 END
GRIDCART UCART2 STA
                XYINC 721122.34 21 25.00 4132648.24 21 25.00
                ELEV    1    49.10    49.10    49.10    49.10    49.10    49.20
                ELEV    1    49.20    49.30    49.40    49.40    49.40    49.60
                ELEV    1    49.70    49.70    50.00    50.00    50.10    50.30
                ELEV    1    50.40    50.50    50.70
                ELEV    2    49.10    49.10    49.10    49.20    49.20    49.40
                ELEV    2    49.40    49.40    49.40    49.40    49.50    49.70
                ELEV    2    49.80    49.80    50.00    50.00    50.30    50.30
                ELEV    2    50.50    50.60    50.70
                ELEV    3    49.10    49.10    49.20    49.40    49.40    49.60
                ELEV    3    49.50    49.40    49.40    49.40    49.70    49.90
                ELEV    3    50.00    50.00    50.00    50.00    50.30    50.30
                ELEV    3    50.50    50.60    50.70
                ELEV    4    49.20    49.40    49.40    49.40    49.40    49.60
                ELEV    4    49.70    49.50    49.50    49.70    49.70    49.90
                ELEV    4    50.00    50.00    50.20    50.00    50.30    50.30
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ELEV    4    50.50    50.60    50.60
ELEV    5    49.10    49.20    49.40    49.40    49.40    49.60
ELEV    5    49.70    49.70    49.60    49.70    49.70    49.90
ELEV    5    50.00    50.10    50.10    50.20    50.30    50.50
ELEV    5    50.60    50.70    50.80
ELEV    6    49.30    49.30    49.40    49.40    49.40    49.60
ELEV    6    49.70    49.80    49.80    49.70    49.70    49.90
ELEV    6    50.00    50.20    50.20    50.30    50.30    50.40
ELEV    6    50.50    50.70    51.00
ELEV    7    49.40    49.40    49.40    49.40    49.50    49.80
ELEV    7    49.80    49.90    49.90    49.80    49.80    49.90
ELEV    7    50.00    50.30    50.30    50.30    50.30    50.30
ELEV    7    50.40    50.50    51.00
ELEV    8    49.30    49.40    49.40    49.50    49.70    49.90
ELEV    8    50.00    50.00    50.00    50.00    50.00    50.00
ELEV    8    50.00    50.30    50.30    50.30    50.30    50.30
ELEV    8    50.30    50.30    50.70
ELEV    9    49.20    49.40    49.50    49.70    49.70    49.90
ELEV    9    50.00    50.00    50.00    50.00    50.00    50.00
ELEV    9    50.00    50.30    50.30    50.30    50.30    50.30
ELEV    9    50.30    50.30    50.30
ELEV   10    49.10    49.20    49.40    49.40    49.70    49.90
ELEV   10    50.00    50.10    50.30    50.30    50.30    50.30
ELEV   10    50.30    50.30    50.30    50.30    50.30    50.30
ELEV   10    50.30    50.30    50.30
ELEV   11    49.00    49.10    49.20    49.40    49.70    49.90
ELEV   11    50.10    50.30    50.30    50.30    50.30    50.30
ELEV   11    50.30    50.30    50.30    50.30    50.30    50.10
ELEV   11    50.20    50.30    50.30
ELEV   12    48.80    48.90    49.00    49.20    49.50    50.00
ELEV   12    50.20    50.30    50.30    50.30    50.30    50.30
ELEV   12    50.30    50.10    50.10    50.10    50.10    50.20
ELEV   12    50.20    50.20    50.10
ELEV   13    48.80    48.80    48.80    49.00    49.10    50.00
ELEV   13    50.30    50.30    50.30    50.30    50.20    50.10
ELEV   13    50.00    49.90    49.90    49.90    50.00    50.10
ELEV   13    50.20    50.10    50.00
ELEV   14    48.80    48.80    48.80    48.80    48.80    49.60
ELEV   14    49.90    50.00    50.00    49.90    49.70    49.60
ELEV   14    49.50    49.50    49.60    49.70    50.00    50.00
ELEV   14    50.00    50.00    50.00
ELEV   15    48.80    48.80    48.90    48.90    48.90    48.90
ELEV   15    49.00    49.00    49.00    49.00    49.00    49.00
ELEV   15    49.00    49.10    49.20    49.70    50.00    50.00
ELEV   15    50.00    50.00    50.00
ELEV   16    48.80    49.40    50.20    50.20    50.20    49.50
ELEV   16    49.00    48.80    48.80    48.80    48.80    48.80
ELEV   16    48.80    49.10    49.20    49.70    50.00    50.00
ELEV   16    50.00    50.00    50.00
ELEV   17    49.90    50.10    50.20    50.10    50.10    49.70
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ELEV	17	49.20	48.90	48.80	48.80	48.80	48.80
ELEV	17	48.90	49.10	49.20	49.50	49.70	49.80
ELEV	17	49.90	50.00	49.90			
ELEV	18	50.20	50.20	50.10	50.00	49.80	49.60
ELEV	18	49.20	48.90	48.80	48.80	48.80	48.90
ELEV	18	49.00	49.30	49.30	49.60	49.50	49.80
ELEV	18	49.90	49.90	49.80			
ELEV	19	50.20	50.10	49.90	49.80	49.70	49.40
ELEV	19	49.20	48.90	48.80	48.80	48.90	49.00
ELEV	19	49.10	49.40	49.40	49.50	49.40	49.70
ELEV	19	49.90	49.80	49.70			
ELEV	20	49.90	49.90	49.80	49.60	49.50	49.30
ELEV	20	49.20	48.90	48.80	48.80	49.00	49.10
ELEV	20	49.10	49.30	49.30	49.40	49.50	49.60
ELEV	20	49.70	49.70	49.70			
ELEV	21	49.70	49.70	49.60	49.30	49.10	49.00
ELEV	21	49.10	48.90	48.80	48.80	48.80	49.00
ELEV	21	49.10	49.10	49.20	49.40	49.70	49.70
ELEV	21	49.70	49.70	49.70			
HILL	1	49.10	49.10	49.10	49.10	49.10	49.20
HILL	1	49.20	49.30	49.40	49.40	49.40	49.60
HILL	1	49.70	49.70	50.00	50.00	50.10	50.30
HILL	1	50.40	50.50	50.70			
HILL	2	49.10	49.10	49.10	49.20	49.20	49.40
HILL	2	49.40	49.40	49.40	49.40	49.50	49.70
HILL	2	49.80	49.80	50.00	50.00	50.30	50.30
HILL	2	50.50	50.60	50.70			
HILL	3	49.10	49.10	49.20	49.40	49.40	49.60
HILL	3	49.50	49.40	49.40	49.40	49.70	49.90
HILL	3	50.00	50.00	50.00	50.00	50.30	50.30
HILL	3	50.50	50.60	50.70			
HILL	4	49.20	49.40	49.40	49.40	49.40	49.60
HILL	4	49.70	49.50	49.50	49.70	49.70	49.90
HILL	4	50.00	50.00	50.20	50.00	50.30	50.30
HILL	4	50.50	50.60	50.60			
HILL	5	49.10	49.20	49.40	49.40	49.40	49.60
HILL	5	49.70	49.70	49.60	49.70	49.70	49.90
HILL	5	50.00	50.10	50.10	50.20	50.30	50.50
HILL	5	50.60	50.70	50.80			
HILL	6	49.30	49.30	49.40	49.40	49.40	49.60
HILL	6	49.70	49.80	49.80	49.70	49.70	49.90
HILL	6	50.00	50.20	50.20	50.30	50.30	50.40
HILL	6	50.50	50.70	51.00			
HILL	7	49.40	49.40	49.40	49.40	49.50	49.80
HILL	7	49.80	49.90	49.90	49.80	49.80	49.90
HILL	7	50.00	50.30	50.30	50.30	50.30	50.30
HILL	7	50.40	50.50	51.00			
HILL	8	49.30	49.40	49.40	49.50	49.70	49.90
HILL	8	50.00	50.00	50.00	50.00	50.00	50.00
HILL	8	50.00	50.30	50.30	50.30	50.30	50.30

HILL	8	50.30	50.30	50.70			
HILL	9	49.20	49.40	49.50	49.70	49.70	49.90
HILL	9	50.00	50.00	50.00	50.00	50.00	50.00
HILL	9	50.00	50.30	50.30	50.30	50.30	50.30
HILL	9	50.30	50.30	50.30			
HILL	10	49.10	49.20	49.40	49.40	49.70	49.90
HILL	10	50.00	50.10	50.30	50.30	50.30	50.30
HILL	10	50.30	50.30	50.30	50.30	50.30	50.30
HILL	10	50.30	50.30	50.30			
HILL	11	49.00	49.10	49.20	49.40	49.70	49.90
HILL	11	50.10	50.30	50.30	50.30	50.30	50.30
HILL	11	50.30	50.30	50.30	50.30	50.30	50.10
HILL	11	50.20	50.30	50.30			
HILL	12	48.80	48.90	49.00	49.20	49.50	50.00
HILL	12	50.20	50.30	50.30	50.30	50.30	50.30
HILL	12	50.30	50.10	50.10	50.10	50.10	50.20
HILL	12	50.20	50.20	50.10			
HILL	13	48.80	48.80	48.80	49.00	49.10	50.00
HILL	13	50.30	50.30	50.30	50.30	50.20	50.10
HILL	13	50.00	49.90	49.90	49.90	50.00	50.10
HILL	13	50.20	50.10	50.00			
HILL	14	48.80	48.80	48.80	48.80	48.80	49.60
HILL	14	49.90	50.00	50.00	49.90	49.70	49.60
HILL	14	49.50	49.50	49.60	49.70	50.00	50.00
HILL	14	50.00	50.00	50.00			
HILL	15	48.80	48.80	48.90	48.90	48.90	48.90
HILL	15	49.00	49.00	49.00	49.00	49.00	49.00
HILL	15	49.00	49.10	49.20	49.70	50.00	50.00
HILL	15	50.00	50.00	50.00			
HILL	16	48.80	49.40	50.20	50.20	50.20	49.50
HILL	16	49.00	48.80	48.80	48.80	48.80	48.80
HILL	16	48.80	49.10	49.20	49.70	50.00	50.00
HILL	16	50.00	50.00	50.00			
HILL	17	49.90	50.10	50.20	50.10	50.10	49.70
HILL	17	49.20	48.90	48.80	48.80	48.80	48.80
HILL	17	48.90	49.10	49.20	49.50	49.70	49.80
HILL	17	49.90	50.00	49.90			
HILL	18	50.20	50.20	50.10	50.00	49.80	49.60
HILL	18	49.20	48.90	48.80	48.80	48.80	48.90
HILL	18	49.00	49.30	49.30	49.60	49.50	49.80
HILL	18	49.90	49.90	49.80			
HILL	19	50.20	50.10	49.90	49.80	49.70	49.40
HILL	19	49.20	48.90	48.80	48.80	48.90	49.00
HILL	19	49.10	49.40	49.40	49.50	49.40	49.70
HILL	19	49.90	49.80	49.70			
HILL	20	49.90	49.90	49.80	49.60	49.50	49.30
HILL	20	49.20	48.90	48.80	48.80	49.00	49.10
HILL	20	49.10	49.30	49.30	49.40	49.50	49.60
HILL	20	49.70	49.70	49.70			
HILL	21	49.70	49.70	49.60	49.30	49.10	49.00

HILL	21	49.10	48.90	48.80	48.80	48.80	49.00
HILL	21	49.10	49.10	49.20	49.40	49.70	49.70
HILL	21	49.70	49.70	49.70			
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80			
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80			
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80			
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80			
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80			
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80			
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80			
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80			
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80			
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80			
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80			
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80

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                FLAG   12     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80
GRIDCART UCART2 END
GRIDCART UCART3 STA
                XYINC 718867.38 25 25.00 4132691.48 30 25.00
                ELEV    1    46.80    47.00    47.00    47.00    47.20    47.20
                ELEV    1    47.20    47.30    47.60    47.60    47.80    48.20
                ELEV    1    48.60    48.80    48.80    48.80    48.80    48.80
                ELEV    1    48.80    48.80    48.80    48.80    48.80    48.80
                ELEV    1    48.60
                ELEV    2    46.90    46.90    46.90    46.90    47.00    47.20
                ELEV    2    47.20    47.30    47.30    47.30    47.70    48.20
                ELEV    2    48.60    48.80    48.70    48.60    48.40    48.50
                ELEV    2    48.50    48.50    48.60    48.80    48.60    48.50
                ELEV    2    48.50
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ELEV    3    46.90    46.90    46.90    46.90    46.90    47.10
ELEV    3    47.20    47.20    47.30    47.60    47.90    48.30
ELEV    3    48.50    48.60    48.40    48.30    48.10    48.20
ELEV    3    48.30    48.30    48.30    48.60    48.40    48.30
ELEV    3    48.30
ELEV    4    47.10    47.10    47.10    47.10    47.10    47.20
ELEV    4    47.20    47.30    47.40    47.70    48.00    48.20
ELEV    4    48.30    48.10    47.90    47.90    47.80    47.90
ELEV    4    47.90    48.00    48.10    48.30    48.10    48.00
ELEV    4    48.00
ELEV    5    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    5    47.20    47.30    47.50    47.50    47.70    47.90
ELEV    5    47.90    47.70    47.50    47.50    47.50    47.50
ELEV    5    47.50    47.60    47.80    48.10    47.90    47.80
ELEV    5    47.90
ELEV    6    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    6    47.30    47.30    47.50    47.50    47.50    47.50
ELEV    6    47.40    47.20    47.20    47.20    47.20    47.20
ELEV    6    47.40    47.50    47.60    47.80    47.60    47.70
ELEV    6    47.90
ELEV    7    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    7    47.40    47.50    47.50    47.50    47.50    47.40
ELEV    7    47.30    47.20    47.20    47.20    47.20    47.20
ELEV    7    47.30    47.40    47.60    47.60    47.60    47.70
ELEV    7    47.90
ELEV    8    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    8    47.30    47.30    47.30    47.30    47.30    47.30
ELEV    8    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    8    47.20    47.30    47.50    47.50    47.50    47.60
ELEV    8    47.60
ELEV    9    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    9    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    9    47.20    47.20    47.20    47.20    47.20    47.20
ELEV    9    47.20    47.30    47.50    47.50    47.50    47.50
ELEV    9    47.50
ELEV   10    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   10    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   10    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   10    47.20    47.30    47.50    47.50    47.50    47.50
ELEV   10    47.50
ELEV   11    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   11    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   11    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   11    47.20    47.30    47.50    47.50    47.50    47.50
ELEV   11    47.50
ELEV   12    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   12    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   12    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   12    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   12    47.40
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ELEV   13    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   13    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   13    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   13    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   13    47.30
ELEV   14    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   14    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   14    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   14    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   14    47.20
ELEV   15    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   15    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   15    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   15    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   15    47.20
ELEV   16    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   16    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   16    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   16    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   16    47.20
ELEV   17    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   17    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   17    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   17    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   17    47.20
ELEV   18    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   18    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   18    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   18    47.20    47.20    47.20    47.20    47.20    47.30
ELEV   18    47.30
ELEV   19    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   19    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   19    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   19    47.20    47.20    47.20    47.20    47.20    47.40
ELEV   19    47.50
ELEV   20    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   20    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   20    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   20    47.30    47.50    47.50    47.50    47.50    47.50
ELEV   20    47.50
ELEV   21    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   21    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   21    47.20    47.20    47.20    47.20    47.40    47.40
ELEV   21    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   21    47.50
ELEV   22    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   22    47.20    47.20    47.20    47.20    47.20    47.20
ELEV   22    47.20    47.30    47.40    47.40    47.50    47.50
ELEV   22    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   22    47.50
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ELEV   23    47.20    47.20    47.20    47.20    47.20    47.30
ELEV   23    47.30    47.30    47.30    47.30    47.30    47.30
ELEV   23    47.30    47.40    47.50    47.50    47.50    47.50
ELEV   23    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   23    47.50
ELEV   24    47.30    47.30    47.30    47.30    47.30    47.40
ELEV   24    47.50    47.50    47.30    47.50    47.50    47.50
ELEV   24    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   24    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   24    47.50
ELEV   25    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   25    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   25    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   25    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   25    47.50
ELEV   26    47.50    47.50    47.50    47.30    47.30    47.50
ELEV   26    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   26    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   26    47.50    47.50    47.50    47.50    47.70    47.80
ELEV   26    47.80
ELEV   27    47.50    47.50    47.40    47.30    47.20    47.30
ELEV   27    47.40    47.40    47.40    47.50    47.50    47.50
ELEV   27    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   27    47.50    47.50    47.60    47.70    47.80    47.90
ELEV   27    47.90
ELEV   28    47.50    47.40    47.20    47.20    47.20    47.20
ELEV   28    47.20    47.20    47.30    47.40    47.50    47.50
ELEV   28    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   28    47.50    47.50    47.60    47.80    47.90    47.90
ELEV   28    47.90
ELEV   29    47.40    47.30    47.20    47.20    47.20    47.20
ELEV   29    47.20    47.20    47.20    47.20    47.50    47.50
ELEV   29    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   29    47.50    47.50    47.60    47.80    47.90    47.90
ELEV   29    47.90
ELEV   30    47.50    47.50    47.20    47.20    47.20    47.20
ELEV   30    47.20    47.20    47.20    47.20    47.50    47.50
ELEV   30    47.50    47.50    47.50    47.50    47.50    47.50
ELEV   30    47.60    47.60    47.60    47.80    47.90    47.90
ELEV   30    47.90
HILL    1    46.80    47.00    47.00    47.00    47.20    47.20
HILL    1    47.20    47.30    47.60    47.60    47.80    48.20
HILL    1    48.60    48.80    48.80    48.80    48.80    48.80
HILL    1    48.80    48.80    48.80    48.80    48.80    48.80
HILL    1    48.60
HILL    2    46.90    46.90    46.90    46.90    47.00    47.20
HILL    2    47.20    47.30    47.30    47.30    47.70    48.20
HILL    2    48.60    48.80    48.70    48.60    48.40    48.50
HILL    2    48.50    48.50    48.60    48.80    48.60    48.50
HILL    2    48.50
```

HILL	3	46.90	46.90	46.90	46.90	46.90	47.10
HILL	3	47.20	47.20	47.30	47.60	47.90	48.30
HILL	3	48.50	48.60	48.40	48.30	48.10	48.20
HILL	3	48.30	48.30	48.30	48.60	48.40	48.30
HILL	3	48.30					
HILL	4	47.10	47.10	47.10	47.10	47.10	47.20
HILL	4	47.20	47.30	47.40	47.70	48.00	48.20
HILL	4	48.30	48.10	47.90	47.90	47.80	47.90
HILL	4	47.90	48.00	48.10	48.30	48.10	48.00
HILL	4	48.00					
HILL	5	47.20	47.20	47.20	47.20	47.20	47.20
HILL	5	47.20	47.30	47.50	47.50	47.70	47.90
HILL	5	47.90	47.70	47.50	47.50	47.50	47.50
HILL	5	47.50	47.60	47.80	48.10	47.90	47.80
HILL	5	47.90					
HILL	6	47.20	47.20	47.20	47.20	47.20	47.20
HILL	6	47.30	47.30	47.50	47.50	47.50	47.50
HILL	6	47.40	47.20	47.20	47.20	47.20	47.20
HILL	6	47.40	47.50	47.60	47.80	47.60	47.70
HILL	6	47.90					
HILL	7	47.20	47.20	47.20	47.20	47.20	47.20
HILL	7	47.40	47.50	47.50	47.50	47.50	47.40
HILL	7	47.30	47.20	47.20	47.20	47.20	47.20
HILL	7	47.30	47.40	47.60	47.60	47.60	47.70
HILL	7	47.90					
HILL	8	47.20	47.20	47.20	47.20	47.20	47.20
HILL	8	47.30	47.30	47.30	47.30	47.30	47.30
HILL	8	47.20	47.20	47.20	47.20	47.20	47.20
HILL	8	47.20	47.30	47.50	47.50	47.50	47.60
HILL	8	47.60					
HILL	9	47.20	47.20	47.20	47.20	47.20	47.20
HILL	9	47.20	47.20	47.20	47.20	47.20	47.20
HILL	9	47.20	47.20	47.20	47.20	47.20	47.20
HILL	9	47.20	47.30	47.50	47.50	47.50	47.50
HILL	9	47.50					
HILL	10	47.20	47.20	47.20	47.20	47.20	47.20
HILL	10	47.20	47.20	47.20	47.20	47.20	47.20
HILL	10	47.20	47.20	47.20	47.20	47.20	47.20
HILL	10	47.20	47.30	47.50	47.50	47.50	47.50
HILL	10	47.50					
HILL	11	47.20	47.20	47.20	47.20	47.20	47.20
HILL	11	47.20	47.20	47.20	47.20	47.20	47.20
HILL	11	47.20	47.20	47.20	47.20	47.20	47.20
HILL	11	47.20	47.30	47.50	47.50	47.50	47.50
HILL	11	47.50					
HILL	12	47.20	47.20	47.20	47.20	47.20	47.20
HILL	12	47.20	47.20	47.20	47.20	47.20	47.20
HILL	12	47.20	47.20	47.20	47.20	47.20	47.20
HILL	12	47.20	47.20	47.20	47.20	47.20	47.20
HILL	12	47.40					

HILL	13	47.20	47.20	47.20	47.20	47.20	47.20
HILL	13	47.20	47.20	47.20	47.20	47.20	47.20
HILL	13	47.20	47.20	47.20	47.20	47.20	47.20
HILL	13	47.20	47.20	47.20	47.20	47.20	47.20
HILL	13	47.30					
HILL	14	47.20	47.20	47.20	47.20	47.20	47.20
HILL	14	47.20	47.20	47.20	47.20	47.20	47.20
HILL	14	47.20	47.20	47.20	47.20	47.20	47.20
HILL	14	47.20	47.20	47.20	47.20	47.20	47.20
HILL	14	47.20					
HILL	15	47.20	47.20	47.20	47.20	47.20	47.20
HILL	15	47.20	47.20	47.20	47.20	47.20	47.20
HILL	15	47.20	47.20	47.20	47.20	47.20	47.20
HILL	15	47.20	47.20	47.20	47.20	47.20	47.20
HILL	15	47.20					
HILL	16	47.20	47.20	47.20	47.20	47.20	47.20
HILL	16	47.20	47.20	47.20	47.20	47.20	47.20
HILL	16	47.20	47.20	47.20	47.20	47.20	47.20
HILL	16	47.20	47.20	47.20	47.20	47.20	47.20
HILL	16	47.20					
HILL	17	47.20	47.20	47.20	47.20	47.20	47.20
HILL	17	47.20	47.20	47.20	47.20	47.20	47.20
HILL	17	47.20	47.20	47.20	47.20	47.20	47.20
HILL	17	47.20	47.20	47.20	47.20	47.20	47.20
HILL	17	47.20					
HILL	18	47.20	47.20	47.20	47.20	47.20	47.20
HILL	18	47.20	47.20	47.20	47.20	47.20	47.20
HILL	18	47.20	47.20	47.20	47.20	47.20	47.20
HILL	18	47.20	47.20	47.20	47.20	47.20	47.30
HILL	18	47.30					
HILL	19	47.20	47.20	47.20	47.20	47.20	47.20
HILL	19	47.20	47.20	47.20	47.20	47.20	47.20
HILL	19	47.20	47.20	47.20	47.20	47.20	47.20
HILL	19	47.20	47.20	47.20	47.20	47.20	47.40
HILL	19	47.50					
HILL	20	47.20	47.20	47.20	47.20	47.20	47.20
HILL	20	47.20	47.20	47.20	47.20	47.20	47.20
HILL	20	47.20	47.20	47.20	47.20	47.20	47.20
HILL	20	47.30	47.50	47.50	47.50	47.50	47.50
HILL	20	47.50					
HILL	21	47.20	47.20	47.20	47.20	47.20	47.20
HILL	21	47.20	47.20	47.20	47.20	47.20	47.20
HILL	21	47.20	47.20	47.20	47.20	47.40	47.40
HILL	21	47.50	47.50	47.50	47.50	47.50	47.50
HILL	21	47.50					
HILL	22	47.20	47.20	47.20	47.20	47.20	47.20
HILL	22	47.20	47.20	47.20	47.20	47.20	47.20
HILL	22	47.20	47.30	47.40	47.40	47.50	47.50
HILL	22	47.50	47.50	47.50	47.50	47.50	47.50
HILL	22	47.50					

HILL	23	47.20	47.20	47.20	47.20	47.20	47.30
HILL	23	47.30	47.30	47.30	47.30	47.30	47.30
HILL	23	47.30	47.40	47.50	47.50	47.50	47.50
HILL	23	47.50	47.50	47.50	47.50	47.50	47.50
HILL	23	47.50					
HILL	24	47.30	47.30	47.30	47.30	47.30	47.40
HILL	24	47.50	47.50	47.30	47.50	47.50	47.50
HILL	24	47.50	47.50	47.50	47.50	47.50	47.50
HILL	24	47.50	47.50	47.50	47.50	47.50	47.50
HILL	24	47.50					
HILL	25	47.50	47.50	47.50	47.50	47.50	47.50
HILL	25	47.50	47.50	47.50	47.50	47.50	47.50
HILL	25	47.50	47.50	47.50	47.50	47.50	47.50
HILL	25	47.50	47.50	47.50	47.50	47.50	47.50
HILL	25	47.50					
HILL	26	47.50	47.50	47.50	47.30	47.30	47.50
HILL	26	47.50	47.50	47.50	47.50	47.50	47.50
HILL	26	47.50	47.50	47.50	47.50	47.50	47.50
HILL	26	47.50	47.50	47.50	47.50	47.70	47.80
HILL	26	47.80					
HILL	27	47.50	47.50	47.40	47.30	47.20	47.30
HILL	27	47.40	47.40	47.40	47.50	47.50	47.50
HILL	27	47.50	47.50	47.50	47.50	47.50	47.50
HILL	27	47.50	47.50	47.60	47.70	47.80	47.90
HILL	27	47.90					
HILL	28	47.50	47.40	47.20	47.20	47.20	47.20
HILL	28	47.20	47.20	47.30	47.40	47.50	47.50
HILL	28	47.50	47.50	47.50	47.50	47.50	47.50
HILL	28	47.50	47.50	47.60	47.80	47.90	47.90
HILL	28	47.90					
HILL	29	47.40	47.30	47.20	47.20	47.20	47.20
HILL	29	47.20	47.20	47.20	47.20	47.50	47.50
HILL	29	47.50	47.50	47.50	47.50	47.50	47.50
HILL	29	47.50	47.50	47.60	47.80	47.90	47.90
HILL	29	47.90					
HILL	30	47.50	47.50	47.20	47.20	47.20	47.20
HILL	30	47.20	47.20	47.20	47.20	47.50	47.50
HILL	30	47.50	47.50	47.50	47.50	47.50	47.50
HILL	30	47.60	47.60	47.60	47.80	47.90	47.90
HILL	30	47.90					
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80					
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80					

FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80					
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80					
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80					
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80					
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80					
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80					
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80					
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80					
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80					
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	12	1.80					

FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	13	1.80					
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	14	1.80					
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	15	1.80					
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	16	1.80					
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	17	1.80					
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	18	1.80					
FLAG	19	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	19	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	19	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	19	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	19	1.80					
FLAG	20	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	20	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	20	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	20	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	20	1.80					
FLAG	21	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	21	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	21	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	21	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	21	1.80					
FLAG	22	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	22	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	22	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	22	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	22	1.80					

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                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80
                FLAG   25     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   25     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   25     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   25     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   25     1.80
                FLAG   26     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   26     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   26     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   26     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   26     1.80
                FLAG   27     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   27     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   27     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   27     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   27     1.80
                FLAG   28     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   28     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   28     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   28     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   28     1.80
                FLAG   29     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   29     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   29     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   29     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   29     1.80
                FLAG   30     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   30     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   30     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   30     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   30     1.80
GRIDCART UCART3 END
GRIDCART UCART4 STA
                XYINC 720314.85 18 25.00 4131376.64 21 25.94
                ELEV    1    48.20    48.20    48.20    48.20    48.50    48.50
                ELEV    1    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    1    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    2    48.40    48.30    48.30    48.40    48.50    48.50
                ELEV    2    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    2    48.50    48.50    48.50    48.50    48.50    48.70
                ELEV    3    48.50    48.40    48.40    48.50    48.50    48.50
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ELEV	3	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	3	48.50	48.50	48.60	48.70	48.70	48.80
ELEV	4	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	4	48.50	48.50	48.50	48.50	48.50	48.60
ELEV	4	48.70	48.70	48.70	48.80	48.80	48.80
ELEV	5	48.60	48.50	48.50	48.50	48.50	48.60
ELEV	5	48.60	48.60	48.60	48.60	48.60	48.70
ELEV	5	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	6	48.70	48.70	48.60	48.60	48.60	48.70
ELEV	6	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	6	48.80	48.80	48.80	48.80	48.90	48.90
ELEV	7	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	7	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	7	48.80	48.80	48.80	48.90	49.10	49.10
ELEV	8	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	8	48.80	48.80	48.80	48.80	48.80	49.00
ELEV	8	49.10	49.10	49.10	49.10	49.10	49.10
ELEV	9	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	9	48.80	48.90	49.10	49.10	49.10	49.10
ELEV	9	49.10	49.10	49.10	49.10	49.40	49.40
ELEV	10	48.70	48.90	49.00	49.00	49.00	49.00
ELEV	10	49.00	49.00	49.10	49.10	49.10	49.30
ELEV	10	49.30	49.30	49.30	49.30	49.40	49.40
ELEV	11	48.70	48.90	49.10	49.10	49.10	49.10
ELEV	11	49.20	49.20	49.20	49.30	49.30	49.40
ELEV	11	49.50	49.50	49.40	49.40	49.60	49.60
ELEV	12	48.60	48.80	49.10	49.10	49.10	49.20
ELEV	12	49.30	49.40	49.40	49.40	49.60	49.60
ELEV	12	49.60	49.60	49.60	49.60	49.70	49.70
ELEV	13	48.50	48.80	49.10	49.10	49.10	49.30
ELEV	13	49.50	49.60	49.60	49.50	49.70	49.70
ELEV	13	49.70	49.70	49.70	49.70	49.80	49.80
ELEV	14	48.50	48.70	49.00	49.10	49.20	49.30
ELEV	14	49.60	49.70	49.80	49.80	49.70	49.70
ELEV	14	49.70	49.70	49.70	49.80	50.00	50.00
ELEV	15	48.50	48.60	48.80	49.10	49.40	49.40
ELEV	15	49.60	49.80	50.00	50.00	49.70	49.70
ELEV	15	49.90	49.90	49.80	50.00	50.00	50.00
ELEV	16	48.50	48.50	48.60	48.90	49.40	49.60
ELEV	16	49.70	49.90	50.10	50.20	50.00	50.00
ELEV	16	50.00	50.00	50.00	50.00	50.00	50.30
ELEV	17	48.50	48.50	48.60	48.80	49.10	49.60
ELEV	17	50.10	50.20	50.20	50.10	50.30	50.00
ELEV	17	50.00	50.00	50.00	50.00	50.30	50.30
ELEV	18	48.50	48.50	48.70	49.10	49.50	49.90
ELEV	18	50.20	50.40	50.40	50.20	50.30	50.00
ELEV	18	50.00	50.00	50.10	50.20	50.30	50.70
ELEV	19	48.50	48.50	48.70	49.20	49.90	50.30
ELEV	19	50.40	50.50	50.60	50.60	50.30	50.20
ELEV	19	50.20	50.10	50.10	50.50	51.20	51.10

ELEV	20	48.50	48.50	48.70	49.40	50.10	50.50
ELEV	20	50.70	50.80	50.90	50.80	50.40	50.30
ELEV	20	50.20	50.10	50.50	51.10	51.40	51.40
ELEV	21	48.50	48.60	49.00	49.70	50.30	50.60
ELEV	21	51.00	51.20	51.30	51.20	50.90	50.60
ELEV	21	50.20	50.30	50.80	51.10	50.20	50.50
HILL	1	48.20	48.20	48.20	48.20	48.50	48.50
HILL	1	48.50	48.50	48.50	48.50	48.50	48.50
HILL	1	48.50	48.50	48.50	48.50	48.50	48.50
HILL	2	48.40	48.30	48.30	48.40	48.50	48.50
HILL	2	48.50	48.50	48.50	48.50	48.50	48.50
HILL	2	48.50	48.50	48.50	48.50	48.50	48.70
HILL	3	48.50	48.40	48.40	48.50	48.50	48.50
HILL	3	48.50	48.50	48.50	48.50	48.50	48.50
HILL	3	48.50	48.50	48.60	48.70	48.70	48.80
HILL	4	48.50	48.50	48.50	48.50	48.50	48.50
HILL	4	48.50	48.50	48.50	48.50	48.50	48.60
HILL	4	48.70	48.70	48.70	48.80	48.80	48.80
HILL	5	48.60	48.50	48.50	48.50	48.50	48.60
HILL	5	48.60	48.60	48.60	48.60	48.60	48.70
HILL	5	48.80	48.80	48.80	48.80	48.80	48.80
HILL	6	48.70	48.70	48.60	48.60	48.60	48.70
HILL	6	48.80	48.80	48.80	48.80	48.80	48.80
HILL	6	48.80	48.80	48.80	48.80	48.90	48.90
HILL	7	48.80	48.80	48.80	48.80	48.80	48.80
HILL	7	48.80	48.80	48.80	48.80	48.80	48.80
HILL	7	48.80	48.80	48.80	48.90	49.10	49.10
HILL	8	48.80	48.80	48.80	48.80	48.80	48.80
HILL	8	48.80	48.80	48.80	48.80	48.80	49.00
HILL	8	49.10	49.10	49.10	49.10	49.10	49.10
HILL	9	48.80	48.80	48.80	48.80	48.80	48.80
HILL	9	48.80	48.90	49.10	49.10	49.10	49.10
HILL	9	49.10	49.10	49.10	49.10	49.40	49.40
HILL	10	48.70	48.90	49.00	49.00	49.00	49.00
HILL	10	49.00	49.00	49.10	49.10	49.10	49.30
HILL	10	49.30	49.30	49.30	49.30	49.40	49.40
HILL	11	48.70	48.90	49.10	49.10	49.10	49.10
HILL	11	49.20	49.20	49.20	49.30	49.30	49.40
HILL	11	49.50	49.50	49.40	49.40	49.60	49.60
HILL	12	48.60	48.80	49.10	49.10	49.10	49.20
HILL	12	49.30	49.40	49.40	49.40	49.60	49.60
HILL	12	49.60	49.60	49.60	49.60	49.70	49.70
HILL	13	48.50	48.80	49.10	49.10	49.10	49.30
HILL	13	49.50	49.60	49.60	49.50	49.70	49.70
HILL	13	49.70	49.70	49.70	49.70	49.80	49.80
HILL	14	48.50	48.70	49.00	49.10	49.20	49.30
HILL	14	49.60	49.70	49.80	49.80	49.70	49.70
HILL	14	49.70	49.70	49.70	49.80	50.00	50.00
HILL	15	48.50	48.60	48.80	49.10	49.40	49.40
HILL	15	49.60	49.80	50.00	50.00	49.70	49.70

HILL	15	49.90	49.90	49.80	50.00	50.00	50.00
HILL	16	48.50	48.50	48.60	48.90	49.40	49.60
HILL	16	49.70	49.90	50.10	50.20	50.00	50.00
HILL	16	50.00	50.00	50.00	50.00	50.00	50.30
HILL	17	48.50	48.50	48.60	48.80	49.10	49.60
HILL	17	50.10	50.20	50.20	50.10	50.30	50.00
HILL	17	50.00	50.00	50.00	50.00	50.30	50.30
HILL	18	48.50	48.50	48.70	49.10	49.50	49.90
HILL	18	50.20	50.40	50.40	50.20	50.30	50.00
HILL	18	50.00	50.00	50.10	50.20	50.30	50.70
HILL	19	48.50	48.50	48.70	49.20	49.90	50.30
HILL	19	50.40	50.50	50.60	50.60	50.30	50.20
HILL	19	50.20	50.10	50.10	50.50	51.20	51.10
HILL	20	48.50	48.50	48.70	49.40	50.10	50.50
HILL	20	50.70	50.80	50.90	50.80	50.40	50.30
HILL	20	50.20	50.10	50.50	51.10	51.40	51.40
HILL	21	48.50	48.60	49.00	49.70	50.30	50.60
HILL	21	51.00	51.20	51.30	51.20	50.90	50.60
HILL	21	50.20	50.30	50.80	51.10	50.20	50.50
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	11	1.80	1.80	1.80	1.80	1.80	1.80

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                  FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                  FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
GRIDCART UCART4 END
GRIDCART UCART5 STA
                  XYINC 720761.78 12 25.00 4130992.21 24 25.00
                  ELEV    1    47.90    48.00    48.20    48.20    48.20    48.20
                  ELEV    1    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    2    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    2    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    3    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    3    48.20    48.20    48.20    48.20    48.40    48.20
                  ELEV    4    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    4    48.20    48.30    48.40    48.40    48.50    48.20
                  ELEV    5    48.20    48.20    48.20    48.20    48.20    48.20
                  ELEV    5    48.20    48.30    48.50    48.50    48.50    48.40
                  ELEV    6    48.20    48.20    48.20    48.20    48.30    48.30
                  ELEV    6    48.30    48.40    48.50    48.50    48.50    48.50
                  ELEV    7    48.20    48.20    48.20    48.20    48.40    48.40
                  ELEV    7    48.50    48.50    48.50    48.50    48.50    48.50
                  ELEV    8    48.20    48.20    48.30    48.40    48.20    48.40
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ELEV	8	48.50	48.50	48.50	48.50	48.50	48.70
ELEV	9	48.20	48.30	48.40	48.50	48.40	48.50
ELEV	9	48.50	48.50	48.50	48.50	48.70	48.80
ELEV	10	48.40	48.40	48.50	48.50	48.50	48.50
ELEV	10	48.50	48.50	48.50	48.50	48.70	48.80
ELEV	11	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	11	48.50	48.50	48.50	48.50	48.70	48.80
ELEV	12	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	12	48.50	48.50	48.60	48.60	48.80	48.80
ELEV	13	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	13	48.50	48.60	48.80	48.80	48.80	48.80
ELEV	14	48.50	48.50	48.50	48.50	48.50	48.70
ELEV	14	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	15	48.50	48.50	48.50	48.50	48.70	48.80
ELEV	15	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	16	48.50	48.50	48.50	48.70	48.80	48.80
ELEV	16	48.80	48.80	48.80	48.80	48.80	48.90
ELEV	17	48.60	48.60	48.70	48.80	48.80	48.80
ELEV	17	48.80	48.80	48.80	48.80	48.80	49.00
ELEV	18	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	18	48.80	48.80	48.80	48.90	48.90	49.00
ELEV	19	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	19	48.80	48.80	48.90	49.10	49.10	49.10
ELEV	20	48.80	48.80	48.80	48.80	49.10	49.10
ELEV	20	49.10	49.10	49.10	49.10	49.10	49.30
ELEV	21	48.90	49.00	49.00	49.00	49.10	49.10
ELEV	21	49.20	49.30	49.30	49.30	49.30	49.40
ELEV	22	49.00	49.10	49.10	49.30	49.30	49.30
ELEV	22	49.30	49.40	49.40	49.40	49.60	49.60
ELEV	23	49.20	49.20	49.30	49.40	49.40	49.50
ELEV	23	49.60	49.60	49.60	49.60	49.70	49.80
ELEV	24	49.30	49.40	49.50	49.50	49.50	49.60
ELEV	24	49.80	49.80	49.80	49.80	49.80	50.00
HILL	1	47.90	48.00	48.20	48.20	48.20	48.20
HILL	1	48.20	48.20	48.20	48.20	48.20	48.20
HILL	2	48.20	48.20	48.20	48.20	48.20	48.20
HILL	2	48.20	48.20	48.20	48.20	48.20	48.20
HILL	3	48.20	48.20	48.20	48.20	48.20	48.20
HILL	3	48.20	48.20	48.20	48.20	48.40	48.20
HILL	4	48.20	48.20	48.20	48.20	48.20	48.20
HILL	4	48.20	48.30	48.40	48.40	48.50	48.20
HILL	5	48.20	48.20	48.20	48.20	48.20	48.20
HILL	5	48.20	48.30	48.50	48.50	48.50	48.40
HILL	6	48.20	48.20	48.20	48.20	48.30	48.30
HILL	6	48.30	48.40	48.50	48.50	48.50	48.50
HILL	7	48.20	48.20	48.20	48.20	48.40	48.40
HILL	7	48.50	48.50	48.50	48.50	48.50	48.50
HILL	8	48.20	48.20	48.30	48.40	48.20	48.40
HILL	8	48.50	48.50	48.50	48.50	48.50	48.70
HILL	9	48.20	48.30	48.40	48.50	48.40	48.50

HILL	9	48.50	48.50	48.50	48.50	48.70	48.80
HILL	10	48.40	48.40	48.50	48.50	48.50	48.50
HILL	10	48.50	48.50	48.50	48.50	48.70	48.80
HILL	11	48.50	48.50	48.50	48.50	48.50	48.50
HILL	11	48.50	48.50	48.50	48.50	48.70	48.80
HILL	12	48.50	48.50	48.50	48.50	48.50	48.50
HILL	12	48.50	48.50	48.60	48.60	48.80	48.80
HILL	13	48.50	48.50	48.50	48.50	48.50	48.50
HILL	13	48.50	48.60	48.80	48.80	48.80	48.80
HILL	14	48.50	48.50	48.50	48.50	48.50	48.70
HILL	14	48.80	48.80	48.80	48.80	48.80	48.80
HILL	15	48.50	48.50	48.50	48.50	48.70	48.80
HILL	15	48.80	48.80	48.80	48.80	48.80	48.80
HILL	16	48.50	48.50	48.50	48.70	48.80	48.80
HILL	16	48.80	48.80	48.80	48.80	48.80	48.90
HILL	17	48.60	48.60	48.70	48.80	48.80	48.80
HILL	17	48.80	48.80	48.80	48.80	48.80	49.00
HILL	18	48.80	48.80	48.80	48.80	48.80	48.80
HILL	18	48.80	48.80	48.80	48.90	48.90	49.00
HILL	19	48.80	48.80	48.80	48.80	48.80	48.80
HILL	19	48.80	48.80	48.90	49.10	49.10	49.10
HILL	20	48.80	48.80	48.80	48.80	49.10	49.10
HILL	20	49.10	49.10	49.10	49.10	49.10	49.30
HILL	21	48.90	49.00	49.00	49.00	49.10	49.10
HILL	21	49.20	49.30	49.30	49.30	49.30	49.40
HILL	22	49.00	49.10	49.10	49.30	49.30	49.30
HILL	22	49.30	49.40	49.40	49.40	49.60	49.60
HILL	23	49.20	49.20	49.30	49.40	49.40	49.50
HILL	23	49.60	49.60	49.60	49.60	49.70	49.80
HILL	24	49.30	49.40	49.50	49.50	49.50	49.60
HILL	24	49.80	49.80	49.80	49.80	49.80	50.00
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	9	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	10	1.80	1.80	1.80	1.80	1.80	1.80

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                FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   17     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   18     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   19     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   20     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   21     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   22     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   23     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
                FLAG   24     1.80     1.80     1.80     1.80     1.80     1.80
GRIDCART UCART5 END
GRIDCART UCART6 STA
                XYINC 721041.49 16 25.00 4131064.06 16 20.00
                ELEV    1    48.20    48.40    48.50    48.40    48.40    48.40
                ELEV    1    48.20    48.20    48.20    48.30    48.50    48.50
                ELEV    1    48.50    48.40    48.20    48.20
                ELEV    2    48.30    48.40    48.50    48.50    48.50    48.40
                ELEV    2    48.30    48.30    48.30    48.30    48.50    48.50
                ELEV    2    48.50    48.50    48.30    48.20
                ELEV    3    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    3    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    3    48.50    48.50    48.30    48.20
                ELEV    4    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    4    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    4    48.50    48.50    48.40    48.30
                ELEV    5    48.50    48.60    48.60    48.50    48.50    48.50
                ELEV    5    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    5    48.50    48.50    48.50    48.30
                ELEV    6    48.70    48.80    48.80    48.60    48.50    48.50
                ELEV    6    48.50    48.50    48.50    48.50    48.50    48.50
                ELEV    6    48.50    48.50    48.50    48.30
```

ELEV	7	48.80	48.80	48.80	48.60	48.50	48.50
ELEV	7	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	7	48.50	48.50	48.50	48.40		
ELEV	8	48.80	48.80	48.80	48.70	48.60	48.50
ELEV	8	48.50	48.50	48.50	48.50	48.50	48.50
ELEV	8	48.50	48.50	48.60	48.50		
ELEV	9	48.80	48.80	48.80	48.80	48.80	48.70
ELEV	9	48.50	48.50	48.60	48.60	48.50	48.50
ELEV	9	48.50	48.70	48.80	48.60		
ELEV	10	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	10	48.70	48.70	48.70	48.70	48.60	48.50
ELEV	10	48.50	48.70	48.80	48.70		
ELEV	11	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	11	48.80	48.80	48.80	48.80	48.70	48.60
ELEV	11	48.60	48.70	48.80	48.80		
ELEV	12	48.80	48.80	48.90	48.90	48.80	48.80
ELEV	12	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	12	48.80	48.80	48.80	48.80		
ELEV	13	48.80	48.80	48.90	49.00	49.00	48.90
ELEV	13	48.80	48.80	48.80	48.80	48.80	48.80
ELEV	13	48.80	48.80	48.90	49.00		
ELEV	14	48.80	48.80	49.00	49.10	49.10	49.10
ELEV	14	48.90	48.90	48.90	48.80	48.80	48.80
ELEV	14	48.80	48.90	49.20	49.40		
ELEV	15	48.80	49.00	49.10	49.10	49.10	49.10
ELEV	15	49.10	49.10	49.10	48.90	48.80	48.80
ELEV	15	48.80	49.20	49.70	50.00		
ELEV	16	48.90	49.00	49.10	49.10	49.10	49.10
ELEV	16	49.10	49.10	49.10	49.00	49.00	49.00
ELEV	16	49.00	49.60	50.10	50.50		
HILL	1	48.20	48.40	48.50	48.40	48.40	48.40
HILL	1	48.20	48.20	48.20	48.30	48.50	48.50
HILL	1	48.50	48.40	48.20	48.20		
HILL	2	48.30	48.40	48.50	48.50	48.50	48.40
HILL	2	48.30	48.30	48.30	48.30	48.50	48.50
HILL	2	48.50	48.50	48.30	48.20		
HILL	3	48.50	48.50	48.50	48.50	48.50	48.50
HILL	3	48.50	48.50	48.50	48.50	48.50	48.50
HILL	3	48.50	48.50	48.30	48.20		
HILL	4	48.50	48.50	48.50	48.50	48.50	48.50
HILL	4	48.50	48.50	48.50	48.50	48.50	48.50
HILL	4	48.50	48.50	48.40	48.30		
HILL	5	48.50	48.60	48.60	48.50	48.50	48.50
HILL	5	48.50	48.50	48.50	48.50	48.50	48.50
HILL	5	48.50	48.50	48.50	48.30		
HILL	6	48.70	48.80	48.80	48.60	48.50	48.50
HILL	6	48.50	48.50	48.50	48.50	48.50	48.50
HILL	6	48.50	48.50	48.50	48.30		
HILL	7	48.80	48.80	48.80	48.60	48.50	48.50
HILL	7	48.50	48.50	48.50	48.50	48.50	48.50

HILL	7	48.50	48.50	48.50	48.40		
HILL	8	48.80	48.80	48.80	48.70	48.60	48.50
HILL	8	48.50	48.50	48.50	48.50	48.50	48.50
HILL	8	48.50	48.50	48.60	48.50		
HILL	9	48.80	48.80	48.80	48.80	48.80	48.70
HILL	9	48.50	48.50	48.60	48.60	48.50	48.50
HILL	9	48.50	48.70	48.80	48.60		
HILL	10	48.80	48.80	48.80	48.80	48.80	48.80
HILL	10	48.70	48.70	48.70	48.70	48.60	48.50
HILL	10	48.50	48.70	48.80	48.70		
HILL	11	48.80	48.80	48.80	48.80	48.80	48.80
HILL	11	48.80	48.80	48.80	48.80	48.70	48.60
HILL	11	48.60	48.70	48.80	48.80		
HILL	12	48.80	48.80	48.90	48.90	48.80	48.80
HILL	12	48.80	48.80	48.80	48.80	48.80	48.80
HILL	12	48.80	48.80	48.80	48.80		
HILL	13	48.80	48.80	48.90	49.00	49.00	48.90
HILL	13	48.80	48.80	48.80	48.80	48.80	48.80
HILL	13	48.80	48.80	48.90	49.00		
HILL	14	48.80	48.80	49.00	49.10	49.10	49.10
HILL	14	48.90	48.90	48.90	48.80	48.80	48.80
HILL	14	48.80	48.90	49.20	49.40		
HILL	15	48.80	49.00	49.10	49.10	49.10	49.10
HILL	15	49.10	49.10	49.10	48.90	48.80	48.80
HILL	15	48.80	49.20	49.70	50.00		
HILL	16	48.90	49.00	49.10	49.10	49.10	49.10
HILL	16	49.10	49.10	49.10	49.00	49.00	49.00
HILL	16	49.00	49.60	50.10	50.50		
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	1	1.80	1.80	1.80	1.80		
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	2	1.80	1.80	1.80	1.80		
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	3	1.80	1.80	1.80	1.80		
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	4	1.80	1.80	1.80	1.80		
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	5	1.80	1.80	1.80	1.80		
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	6	1.80	1.80	1.80	1.80		
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80	1.80	1.80
FLAG	7	1.80	1.80	1.80	1.80		
FLAG	8	1.80	1.80	1.80	1.80	1.80	1.80

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                    FLAG    8     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    8     1.80     1.80     1.80     1.80
                    FLAG    9     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    9     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG    9     1.80     1.80     1.80     1.80
                    FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   10     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   10     1.80     1.80     1.80     1.80
                    FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   11     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   11     1.80     1.80     1.80     1.80
                    FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   12     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   12     1.80     1.80     1.80     1.80
                    FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   13     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   13     1.80     1.80     1.80     1.80
                    FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   14     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   14     1.80     1.80     1.80     1.80
                    FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   15     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   15     1.80     1.80     1.80     1.80
                    FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   16     1.80     1.80     1.80     1.80     1.80     1.80
                    FLAG   16     1.80     1.80     1.80     1.80
   GRIDCART UCART6 END
** DESCRREC "" ""
   DISCCART    721792.22   4132066.34   50.60   50.60    1.80
   DISCCART    721583.83   4131986.08   50.29   50.29    0.00
   DISCCART    721606.81   4131976.23   50.29   50.29    0.00
   DISCCART    721629.78   4131966.37   50.29   50.29    0.00
   DISCCART    721652.76   4131956.52   50.29   50.29    0.00
   DISCCART    721675.73   4131946.66   50.29   50.29    0.00
   DISCCART    721698.71   4131936.81   50.29   50.29    0.00
   DISCCART    721721.69   4131926.95   50.29   50.29    0.00
   DISCCART    721744.66   4131917.10   50.29   50.29    0.00
   DISCCART    721767.64   4131907.24   50.29   50.29    0.00
   DISCCART    721790.61   4131897.38   50.29   50.29    0.00
   DISCCART    721813.59   4131887.53   50.29   50.29    0.00
   DISCCART    721836.56   4131877.67   50.29   50.29    0.00
   DISCCART    721859.54   4131867.82   50.29   50.29    0.00
   DISCCART    721882.51   4131857.96   50.29   50.29    0.00
   DISCCART    721905.49   4131848.11   50.29   50.29    0.00
   DISCCART    721928.46   4131838.25   50.29   50.29    0.00
   DISCCART    721951.44   4131828.40   50.29   50.29    0.00
   DISCCART    721974.42   4131818.54   50.29   50.29    0.00
   DISCCART    721997.39   4131808.69   50.29   50.29    0.00
   DISCCART    722020.37   4131798.83   50.29   50.29    0.00
   DISCCART    722043.34   4131788.98   50.29   50.29    0.00
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DISCCART	722066.32	4131779.12	50.29	50.29	0.00
DISCCART	722089.29	4131769.27	50.29	50.29	0.00
DISCCART	722112.27	4131759.41	50.29	50.29	0.00
DISCCART	722135.24	4131749.56	50.29	50.29	0.00
DISCCART	722158.22	4131739.70	50.29	50.29	0.00
DISCCART	722181.20	4131729.85	50.29	50.29	0.00
DISCCART	722204.17	4131719.99	50.29	50.29	0.00
DISCCART	722227.15	4131710.13	50.29	50.29	0.00
DISCCART	722250.12	4131700.28	50.29	50.29	0.00
DISCCART	722273.10	4131690.42	50.29	50.29	0.00
DISCCART	722296.07	4131680.57	50.29	50.29	0.00
DISCCART	722319.05	4131670.71	50.29	50.29	0.00
DISCCART	722342.02	4131660.86	50.29	50.29	0.00
DISCCART	722365.00	4131651.00	50.29	50.29	0.00
DISCCART	722387.97	4131641.15	50.29	50.29	0.00
DISCCART	722410.95	4131631.29	50.29	50.29	0.00
DISCCART	722433.93	4131621.44	50.29	50.29	0.00
DISCCART	722456.90	4131611.58	50.32	50.32	0.00
DISCCART	722479.88	4131601.73	50.56	50.56	0.00
DISCCART	722502.85	4131591.87	50.60	50.60	0.00
DISCCART	722525.83	4131582.02	50.60	50.60	0.00
DISCCART	722548.80	4131572.16	50.60	50.60	0.00
DISCCART	722571.78	4131562.31	50.60	50.60	0.00
DISCCART	722594.75	4131552.45	50.60	50.60	0.00
DISCCART	722617.73	4131542.59	50.60	50.60	0.00
DISCCART	722640.71	4131532.74	50.60	50.60	0.00
DISCCART	722663.68	4131522.88	50.60	50.60	0.00
DISCCART	722686.66	4131513.03	50.60	50.60	0.00
DISCCART	722709.63	4131503.17	50.60	50.60	0.00
DISCCART	722732.61	4131493.32	50.60	50.60	0.00
DISCCART	722755.58	4131483.46	50.60	50.60	0.00
DISCCART	722778.56	4131473.61	50.60	50.60	0.00
DISCCART	722801.53	4131463.75	50.60	50.60	0.00
DISCCART	722824.51	4131453.90	50.60	50.60	0.00
DISCCART	722847.48	4131444.04	50.61	50.61	0.00
DISCCART	722870.46	4131434.19	50.60	50.60	0.00
DISCCART	722893.44	4131424.33	50.60	50.60	0.00
DISCCART	722916.41	4131414.48	50.64	50.64	0.00
DISCCART	722939.39	4131404.62	50.65	50.65	0.00
DISCCART	722962.36	4131394.77	50.89	50.89	0.00
DISCCART	722985.34	4131384.91	50.90	50.90	0.00
DISCCART	723008.31	4131375.06	50.90	50.90	0.00
DISCCART	723031.29	4131365.20	50.90	50.90	0.00
DISCCART	723054.26	4131355.34	50.90	50.90	0.00
DISCCART	723077.24	4131345.49	50.90	50.90	0.00
DISCCART	723100.22	4131335.63	50.90	50.90	0.00
DISCCART	723123.19	4131325.78	50.90	50.90	0.00
DISCCART	723146.17	4131315.92	50.90	50.90	0.00
DISCCART	723169.14	4131306.07	50.90	50.90	0.00
DISCCART	723192.12	4131296.21	50.90	50.90	0.00

DISCCART	723267.01	4131369.79	51.01	51.01	0.00
DISCCART	723245.67	4131382.05	50.90	50.90	0.00
DISCCART	723222.69	4131391.91	51.02	51.02	0.00
DISCCART	723199.72	4131401.76	51.20	51.20	0.00
DISCCART	723176.74	4131411.62	51.21	51.21	0.00
DISCCART	723153.76	4131421.48	51.11	51.11	0.00
DISCCART	723130.79	4131431.33	51.17	51.17	0.00
DISCCART	723107.81	4131441.19	51.14	51.14	0.00
DISCCART	723084.84	4131451.04	50.91	50.91	0.00
DISCCART	723061.86	4131460.90	50.90	50.90	0.00
DISCCART	723038.89	4131470.75	50.90	50.90	0.00
DISCCART	723015.91	4131480.61	50.90	50.90	0.00
DISCCART	722992.94	4131490.46	50.90	50.90	0.00
DISCCART	722969.96	4131500.32	50.90	50.90	0.00
DISCCART	722946.99	4131510.17	50.90	50.90	0.00
DISCCART	722924.01	4131520.03	50.90	50.90	0.00
DISCCART	722901.03	4131529.88	50.90	50.90	0.00
DISCCART	722878.06	4131539.74	50.90	50.90	0.00
DISCCART	722855.08	4131549.59	50.90	50.90	0.00
DISCCART	722832.11	4131559.45	50.90	50.90	0.00
DISCCART	722809.13	4131569.30	50.90	50.90	0.00
DISCCART	722786.16	4131579.16	50.90	50.90	0.00
DISCCART	722763.18	4131589.02	50.90	50.90	0.00
DISCCART	722740.21	4131598.87	50.83	50.83	0.00
DISCCART	722717.23	4131608.73	50.78	50.78	0.00
DISCCART	722694.26	4131618.58	50.60	50.60	0.00
DISCCART	722671.28	4131628.44	50.60	50.60	0.00
DISCCART	722648.30	4131638.29	50.60	50.60	0.00
DISCCART	722625.33	4131648.15	50.60	50.60	0.00
DISCCART	722602.35	4131658.00	50.60	50.60	0.00
DISCCART	722579.38	4131667.86	50.60	50.60	0.00
DISCCART	722556.40	4131677.71	50.60	50.60	0.00
DISCCART	722533.43	4131687.57	50.60	50.60	0.00
DISCCART	722510.45	4131697.42	50.56	50.56	0.00
DISCCART	722487.48	4131707.28	50.33	50.33	0.00
DISCCART	722464.50	4131717.13	50.29	50.29	0.00
DISCCART	722441.52	4131726.99	50.29	50.29	0.00
DISCCART	722418.55	4131736.84	50.29	50.29	0.00
DISCCART	722395.57	4131746.70	50.29	50.29	0.00
DISCCART	722372.60	4131756.55	50.29	50.29	0.00
DISCCART	722349.62	4131766.41	50.29	50.29	0.00
DISCCART	722326.65	4131776.27	50.29	50.29	0.00
DISCCART	722303.67	4131786.12	50.29	50.29	0.00
DISCCART	722280.70	4131795.98	50.29	50.29	0.00
DISCCART	722257.72	4131805.83	50.29	50.29	0.00
DISCCART	722234.75	4131815.69	50.29	50.29	0.00
DISCCART	722211.77	4131825.54	50.29	50.29	0.00
DISCCART	722188.79	4131835.40	50.29	50.29	0.00
DISCCART	722165.82	4131845.25	50.29	50.29	0.00
DISCCART	722142.84	4131855.11	50.29	50.29	0.00

DISCCART	722119.87	4131864.96	50.29	50.29	0.00
DISCCART	722096.89	4131874.82	50.29	50.29	0.00
DISCCART	722073.92	4131884.67	50.29	50.29	0.00
DISCCART	722050.94	4131894.53	50.29	50.29	0.00
DISCCART	722027.97	4131904.38	50.29	50.29	0.00
DISCCART	722004.99	4131914.24	50.29	50.29	0.00
DISCCART	721982.01	4131924.09	50.29	50.29	0.00
DISCCART	721959.04	4131933.95	50.29	50.29	0.00
DISCCART	721936.06	4131943.81	50.29	50.29	0.00
DISCCART	721913.09	4131953.66	50.29	50.29	0.00
DISCCART	721890.11	4131963.52	50.29	50.29	0.00
DISCCART	721867.14	4131973.37	50.29	50.29	0.00
DISCCART	721844.16	4131983.23	50.32	50.32	0.00
DISCCART	721821.19	4131993.08	50.48	50.48	0.00
DISCCART	721798.21	4132002.94	50.58	50.58	0.00
DISCCART	721775.24	4132012.79	50.60	50.60	0.00
DISCCART	721752.26	4132022.65	50.60	50.60	0.00
DISCCART	721729.28	4132032.50	50.55	50.55	0.00
DISCCART	721706.31	4132042.36	50.31	50.31	0.00
DISCCART	721683.33	4132052.21	50.29	50.29	0.00
DISCCART	721660.36	4132062.07	50.29	50.29	0.00
DISCCART	721637.38	4132071.92	50.29	50.29	0.00
DISCCART	721841.17	4132144.72	50.60	50.60	0.00
DISCCART	721864.15	4132134.89	50.49	50.49	0.00
DISCCART	721887.14	4132125.06	50.29	50.29	0.00
DISCCART	721910.12	4132115.23	50.29	50.29	0.00
DISCCART	721933.11	4132105.40	50.29	50.29	0.00
DISCCART	721956.09	4132095.56	50.29	50.29	0.00
DISCCART	721979.08	4132085.73	50.29	50.29	0.00
DISCCART	722002.07	4132075.90	50.29	50.29	0.00
DISCCART	722025.05	4132066.07	50.29	50.29	0.00
DISCCART	722048.04	4132056.24	50.29	50.29	0.00
DISCCART	722071.02	4132046.41	50.29	50.29	0.00
DISCCART	722094.01	4132036.57	50.29	50.29	0.00
DISCCART	722116.99	4132026.74	50.29	50.29	0.00
DISCCART	722139.98	4132016.91	50.29	50.29	0.00
DISCCART	722162.97	4132007.08	50.29	50.29	0.00
DISCCART	722185.95	4131997.25	50.29	50.29	0.00
DISCCART	722208.94	4131987.42	50.29	50.29	0.00
DISCCART	722231.92	4131977.58	50.29	50.29	0.00
DISCCART	722254.91	4131967.75	50.29	50.29	0.00
DISCCART	722277.89	4131957.92	50.29	50.29	0.00
DISCCART	722300.88	4131948.09	50.29	50.29	0.00
DISCCART	722323.86	4131938.26	50.29	50.29	0.00
DISCCART	722346.85	4131928.43	50.29	50.29	0.00
DISCCART	722369.84	4131918.60	50.29	50.29	0.00
DISCCART	722392.82	4131908.76	50.29	50.29	0.00
DISCCART	722415.81	4131898.93	50.29	50.29	0.00
DISCCART	722438.79	4131889.10	50.29	50.29	0.00
DISCCART	722461.78	4131879.27	50.29	50.29	0.00

DISCCART	722484.76	4131869.44	50.29	50.29	0.00
DISCCART	722507.75	4131859.61	50.29	50.29	0.00
DISCCART	722530.74	4131849.77	50.46	50.46	0.00
DISCCART	722553.72	4131839.94	50.60	50.60	0.00
DISCCART	722576.71	4131830.11	50.60	50.60	0.00
DISCCART	722599.69	4131820.28	50.60	50.60	0.00
DISCCART	722622.68	4131810.45	50.60	50.60	0.00
DISCCART	722645.66	4131800.62	50.60	50.60	0.00
DISCCART	722668.65	4131790.78	50.60	50.60	0.00
DISCCART	722691.63	4131780.95	50.60	50.60	0.00
DISCCART	722714.62	4131771.12	50.60	50.60	0.00
DISCCART	722737.61	4131761.29	50.74	50.74	0.00
DISCCART	722760.59	4131751.46	50.90	50.90	0.00
DISCCART	722783.58	4131741.63	50.90	50.90	0.00
DISCCART	722806.56	4131731.79	50.90	50.90	0.00
DISCCART	722829.55	4131721.96	50.90	50.90	0.00
DISCCART	722852.53	4131712.13	50.90	50.90	0.00
DISCCART	722875.52	4131702.30	50.90	50.90	0.00
DISCCART	722898.51	4131692.47	50.90	50.90	0.00
DISCCART	722921.49	4131682.64	50.90	50.90	0.00
DISCCART	722944.48	4131672.80	51.00	51.00	0.00
DISCCART	722967.46	4131662.97	51.10	51.10	0.00
DISCCART	722990.45	4131653.14	51.18	51.18	0.00
DISCCART	723013.43	4131643.31	51.19	51.19	0.00
DISCCART	723036.42	4131633.48	51.14	51.14	0.00
DISCCART	723059.41	4131623.65	51.21	51.21	0.00
DISCCART	723082.39	4131613.82	51.21	51.21	0.00
DISCCART	723105.38	4131603.98	51.34	51.34	0.00
DISCCART	723128.36	4131594.15	51.26	51.26	0.00
DISCCART	723151.35	4131584.32	51.28	51.28	0.00
DISCCART	723174.33	4131574.49	51.40	51.40	0.00
DISCCART	723197.32	4131564.66	51.23	51.23	0.00
DISCCART	723220.30	4131554.83	51.04	51.04	0.00
DISCCART	723243.29	4131544.99	50.90	50.90	0.00
DISCCART	723266.28	4131535.16	50.92	50.92	0.00
DISCCART	723289.26	4131525.33	51.16	51.16	0.00
DISCCART	723316.75	4131622.34	51.51	51.51	0.00
DISCCART	723293.77	4131632.17	51.51	51.51	0.00
DISCCART	723270.78	4131642.00	51.28	51.28	0.00
DISCCART	723247.80	4131651.83	51.21	51.21	0.00
DISCCART	723224.81	4131661.66	51.30	51.30	0.00
DISCCART	723201.82	4131671.49	51.51	51.51	0.00
DISCCART	723178.84	4131681.33	51.51	51.51	0.00
DISCCART	723155.85	4131691.16	51.51	51.51	0.00
DISCCART	723132.87	4131700.99	51.50	51.50	0.00
DISCCART	723109.88	4131710.82	51.47	51.47	0.00
DISCCART	723086.90	4131720.65	51.24	51.24	0.00
DISCCART	723063.91	4131730.48	51.21	51.21	0.00
DISCCART	723040.93	4131740.31	51.21	51.21	0.00
DISCCART	723017.94	4131750.15	51.21	51.21	0.00

DISCCART	722994.95	4131759.98	51.21	51.21	0.00
DISCCART	722971.97	4131769.81	51.21	51.21	0.00
DISCCART	722948.98	4131779.64	51.21	51.21	0.00
DISCCART	722926.00	4131789.47	51.21	51.21	0.00
DISCCART	722903.01	4131799.30	51.21	51.21	0.00
DISCCART	722880.03	4131809.14	51.21	51.21	0.00
DISCCART	722857.04	4131818.97	51.21	51.21	0.00
DISCCART	722834.05	4131828.80	51.11	51.11	0.00
DISCCART	722811.07	4131838.63	50.90	50.90	0.00
DISCCART	722788.08	4131848.46	50.90	50.90	0.00
DISCCART	722765.10	4131858.29	50.90	50.90	0.00
DISCCART	722742.11	4131868.13	50.90	50.90	0.00
DISCCART	722719.13	4131877.96	50.85	50.85	0.00
DISCCART	722696.14	4131887.79	50.65	50.65	0.00
DISCCART	722673.16	4131897.62	50.64	50.64	0.00
DISCCART	722650.17	4131907.45	50.60	50.60	0.00
DISCCART	722627.18	4131917.28	50.60	50.60	0.00
DISCCART	722604.20	4131927.12	50.60	50.60	0.00
DISCCART	722581.21	4131936.95	50.60	50.60	0.00
DISCCART	722558.23	4131946.78	50.60	50.60	0.00
DISCCART	722535.24	4131956.61	50.51	50.51	0.00
DISCCART	722512.26	4131966.44	50.29	50.29	0.00
DISCCART	722489.27	4131976.27	50.29	50.29	0.00
DISCCART	722466.28	4131986.11	50.29	50.29	0.00
DISCCART	722443.30	4131995.94	50.29	50.29	0.00
DISCCART	722420.31	4132005.77	50.29	50.29	0.00
DISCCART	722397.33	4132015.60	50.29	50.29	0.00
DISCCART	722374.34	4132025.43	50.29	50.29	0.00
DISCCART	722351.36	4132035.26	50.29	50.29	0.00
DISCCART	722328.37	4132045.09	50.29	50.29	0.00
DISCCART	722305.38	4132054.93	50.29	50.29	0.00
DISCCART	722282.40	4132064.76	50.29	50.29	0.00
DISCCART	722259.41	4132074.59	50.29	50.29	0.00
DISCCART	722236.43	4132084.42	50.29	50.29	0.00
DISCCART	722213.44	4132094.25	50.29	50.29	0.00
DISCCART	722190.46	4132104.08	50.29	50.29	0.00
DISCCART	722167.47	4132113.92	50.29	50.29	0.00
DISCCART	722144.49	4132123.75	50.29	50.29	0.00
DISCCART	722121.50	4132133.58	50.29	50.29	0.00
DISCCART	722098.51	4132143.41	50.29	50.29	0.00
DISCCART	722075.53	4132153.24	50.29	50.29	0.00
DISCCART	722052.54	4132163.07	50.29	50.29	0.00
DISCCART	722029.56	4132172.91	50.29	50.29	0.00
DISCCART	722006.57	4132182.74	50.29	50.29	0.00
DISCCART	721983.59	4132192.57	50.29	50.29	0.00
DISCCART	721960.60	4132202.40	50.37	50.37	0.00
DISCCART	721937.61	4132212.23	50.57	50.57	0.00
DISCCART	721914.63	4132222.06	50.60	50.60	0.00
DISCCART	721891.64	4132231.90	50.60	50.60	0.00
DISCCART	721853.38	4132064.29	50.60	50.60	0.00

DISCCART	721876.36	4132054.46	50.37	50.37	0.00
DISCCART	721899.34	4132044.62	50.29	50.29	0.00
DISCCART	721922.33	4132034.78	50.29	50.29	0.00
DISCCART	721945.31	4132024.94	50.29	50.29	0.00
DISCCART	721968.29	4132015.11	50.29	50.29	0.00
DISCCART	721991.28	4132005.27	50.29	50.29	0.00
DISCCART	722014.26	4131995.43	50.29	50.29	0.00
DISCCART	722037.24	4131985.59	50.29	50.29	0.00
DISCCART	722060.23	4131975.75	50.29	50.29	0.00
DISCCART	722083.21	4131965.92	50.29	50.29	0.00
DISCCART	722106.19	4131956.08	50.29	50.29	0.00
DISCCART	722129.17	4131946.24	50.29	50.29	0.00
DISCCART	722152.16	4131936.40	50.29	50.29	0.00
DISCCART	722175.14	4131926.57	50.29	50.29	0.00
DISCCART	722198.12	4131916.73	50.29	50.29	0.00
DISCCART	722221.11	4131906.89	50.29	50.29	0.00
DISCCART	722244.09	4131897.05	50.29	50.29	0.00
DISCCART	722267.07	4131887.22	50.29	50.29	0.00
DISCCART	722290.06	4131877.38	50.29	50.29	0.00
DISCCART	722313.04	4131867.54	50.29	50.29	0.00
DISCCART	722336.02	4131857.70	50.29	50.29	0.00
DISCCART	722359.01	4131847.86	50.29	50.29	0.00
DISCCART	722381.99	4131838.03	50.29	50.29	0.00
DISCCART	722404.97	4131828.19	50.29	50.29	0.00
DISCCART	722427.95	4131818.35	50.29	50.29	0.00
DISCCART	722450.94	4131808.51	50.29	50.29	0.00
DISCCART	722473.92	4131798.68	50.29	50.29	0.00
DISCCART	722496.90	4131788.84	50.40	50.40	0.00
DISCCART	722519.89	4131779.00	50.47	50.47	0.00
DISCCART	722542.87	4131769.16	50.59	50.59	0.00
DISCCART	722565.85	4131759.32	50.60	50.60	0.00
DISCCART	722588.84	4131749.49	50.60	50.60	0.00
DISCCART	722611.82	4131739.65	50.60	50.60	0.00
DISCCART	722634.80	4131729.81	50.60	50.60	0.00
DISCCART	722657.78	4131719.97	50.60	50.60	0.00
DISCCART	722680.77	4131710.14	50.60	50.60	0.00
DISCCART	722703.75	4131700.30	50.60	50.60	0.00
DISCCART	722726.73	4131690.46	50.62	50.62	0.00
DISCCART	722749.72	4131680.62	50.86	50.86	0.00
DISCCART	722772.70	4131670.78	50.90	50.90	0.00
DISCCART	722795.68	4131660.95	50.90	50.90	0.00
DISCCART	722818.67	4131651.11	50.90	50.90	0.00
DISCCART	722841.65	4131641.27	50.90	50.90	0.00
DISCCART	722864.63	4131631.43	50.90	50.90	0.00
DISCCART	722887.61	4131621.60	50.90	50.90	0.00
DISCCART	722910.60	4131611.76	50.90	50.90	0.00
DISCCART	722933.58	4131601.92	50.90	50.90	0.00
DISCCART	722956.56	4131592.08	50.90	50.90	0.00
DISCCART	722979.55	4131582.24	50.90	50.90	0.00
DISCCART	723002.53	4131572.41	50.90	50.90	0.00

DISCCART	723025.51	4131562.57	50.90	50.90	0.00
DISCCART	723048.50	4131552.73	50.90	50.90	0.00
DISCCART	723071.48	4131542.89	50.90	50.90	0.00
DISCCART	723094.46	4131533.06	51.01	51.01	0.00
DISCCART	723117.44	4131523.22	51.21	51.21	0.00
DISCCART	723140.43	4131513.38	51.21	51.21	0.00
DISCCART	723163.41	4131503.54	51.21	51.21	0.00
DISCCART	723186.39	4131493.71	51.21	51.21	0.00
DISCCART	723209.38	4131483.87	51.15	51.15	0.00
DISCCART	723232.36	4131474.03	50.92	50.92	0.00
DISCCART	723255.34	4131464.19	50.90	50.90	0.00
DISCCART	723278.33	4131454.35	51.05	51.05	0.00
DISCCART	723260.99	4131463.95	50.90	50.90	0.00
DISCCART	723238.01	4131473.79	50.90	50.90	0.00
DISCCART	723215.03	4131483.62	51.09	51.09	0.00
DISCCART	723192.04	4131493.46	51.21	51.21	0.00
DISCCART	723169.06	4131503.30	51.21	51.21	0.00
DISCCART	723146.08	4131513.14	51.21	51.21	0.00
DISCCART	723123.10	4131522.98	51.21	51.21	0.00
DISCCART	723100.11	4131532.81	51.07	51.07	0.00
DISCCART	723077.13	4131542.65	50.90	50.90	0.00
DISCCART	723054.15	4131552.49	50.90	50.90	0.00
DISCCART	723031.16	4131562.33	50.90	50.90	0.00
DISCCART	723008.18	4131572.16	50.90	50.90	0.00
DISCCART	722985.20	4131582.00	50.90	50.90	0.00
DISCCART	722962.21	4131591.84	50.90	50.90	0.00
DISCCART	722939.23	4131601.68	50.90	50.90	0.00
DISCCART	722916.25	4131611.51	50.90	50.90	0.00
DISCCART	722893.27	4131621.35	50.90	50.90	0.00
DISCCART	722870.28	4131631.19	50.90	50.90	0.00
DISCCART	722847.30	4131641.03	50.90	50.90	0.00
DISCCART	722824.32	4131650.87	50.90	50.90	0.00
DISCCART	722801.33	4131660.70	50.90	50.90	0.00
DISCCART	722778.35	4131670.54	50.90	50.90	0.00
DISCCART	722755.37	4131680.38	50.90	50.90	0.00
DISCCART	722732.38	4131690.22	50.68	50.68	0.00
DISCCART	722709.40	4131700.05	50.60	50.60	0.00
DISCCART	722686.42	4131709.89	50.60	50.60	0.00
DISCCART	722663.43	4131719.73	50.60	50.60	0.00
DISCCART	722640.45	4131729.57	50.60	50.60	0.00
DISCCART	722617.47	4131739.41	50.60	50.60	0.00
DISCCART	722594.49	4131749.24	50.60	50.60	0.00
DISCCART	722571.50	4131759.08	50.60	50.60	0.00
DISCCART	722548.52	4131768.92	50.60	50.60	0.00
DISCCART	722525.54	4131778.76	50.50	50.50	0.00
DISCCART	722502.55	4131788.59	50.44	50.44	0.00
DISCCART	722479.57	4131798.43	50.29	50.29	0.00
DISCCART	722456.59	4131808.27	50.29	50.29	0.00
DISCCART	722433.60	4131818.11	50.29	50.29	0.00
DISCCART	722410.62	4131827.95	50.29	50.29	0.00

DISCCART	722387.64	4131837.78	50.29	50.29	0.00
DISCCART	722364.66	4131847.62	50.29	50.29	0.00
DISCCART	722341.67	4131857.46	50.29	50.29	0.00
DISCCART	722318.69	4131867.30	50.29	50.29	0.00
DISCCART	722295.71	4131877.13	50.29	50.29	0.00
DISCCART	722272.72	4131886.97	50.29	50.29	0.00
DISCCART	722249.74	4131896.81	50.29	50.29	0.00
DISCCART	722226.76	4131906.65	50.29	50.29	0.00
DISCCART	722203.77	4131916.49	50.29	50.29	0.00
DISCCART	722180.79	4131926.32	50.29	50.29	0.00
DISCCART	722157.81	4131936.16	50.29	50.29	0.00
DISCCART	722134.83	4131946.00	50.29	50.29	0.00
DISCCART	722111.84	4131955.84	50.29	50.29	0.00
DISCCART	722088.86	4131965.67	50.29	50.29	0.00
DISCCART	722065.88	4131975.51	50.29	50.29	0.00
DISCCART	722042.89	4131985.35	50.29	50.29	0.00
DISCCART	722019.91	4131995.19	50.29	50.29	0.00
DISCCART	721996.93	4132005.02	50.29	50.29	0.00
DISCCART	721973.94	4132014.86	50.29	50.29	0.00
DISCCART	721950.96	4132024.70	50.29	50.29	0.00
DISCCART	721927.98	4132034.54	50.29	50.29	0.00
DISCCART	721905.00	4132044.38	50.29	50.29	0.00
DISCCART	721882.01	4132054.21	50.31	50.31	0.00
DISCCART	721859.03	4132064.05	50.55	50.55	0.00
DISCCART	722093.85	4131295.32	52.01	52.01	0.00
DISCCART	722116.79	4131285.39	52.11	52.11	0.00
DISCCART	722139.74	4131275.46	52.06	52.06	0.00
DISCCART	722162.68	4131265.53	51.92	51.92	0.00
DISCCART	722185.62	4131255.59	51.81	51.81	0.00
DISCCART	722208.57	4131245.66	51.89	51.89	0.00
DISCCART	722231.51	4131235.73	52.13	52.13	0.00
DISCCART	722254.45	4131225.80	52.41	52.41	0.00
DISCCART	722277.39	4131215.87	52.49	52.49	0.00
DISCCART	722300.34	4131205.94	52.52	52.52	0.00
DISCCART	722323.28	4131196.00	52.52	52.52	0.00
DISCCART	722346.22	4131186.07	52.48	52.48	0.00
DISCCART	722369.16	4131176.14	52.47	52.47	0.00
DISCCART	722392.11	4131166.21	52.43	52.43	0.00
DISCCART	722415.05	4131156.28	52.54	52.54	0.00
DISCCART	722437.99	4131146.35	52.56	52.56	0.00
DISCCART	722460.93	4131136.42	52.63	52.63	0.00
DISCCART	722483.88	4131126.48	52.51	52.51	0.00
DISCCART	722506.82	4131116.55	52.52	52.52	0.00
DISCCART	722529.76	4131106.62	52.54	52.54	0.00
DISCCART	722552.71	4131096.69	52.50	52.50	0.00
DISCCART	722575.65	4131086.76	52.47	52.47	0.00
DISCCART	722598.59	4131076.83	52.44	52.44	0.00
DISCCART	722621.53	4131066.89	52.41	52.41	0.00
DISCCART	722644.48	4131056.96	52.49	52.49	0.00
DISCCART	722667.42	4131047.03	52.65	52.65	0.00

DISCCART	722690.36	4131037.10	52.61	52.61	0.00
DISCCART	722713.30	4131027.17	52.59	52.59	0.00
DISCCART	722736.25	4131017.24	52.56	52.56	0.00
DISCCART	722759.19	4131007.31	52.53	52.53	0.00
DISCCART	722771.12	4131056.62	51.47	51.47	0.00
DISCCART	722748.18	4131066.55	51.44	51.44	0.00
DISCCART	722725.24	4131076.49	51.48	51.48	0.00
DISCCART	722702.30	4131086.42	51.53	51.53	0.00
DISCCART	722679.35	4131096.35	51.53	51.53	0.00
DISCCART	722656.41	4131106.28	51.57	51.57	0.00
DISCCART	722633.47	4131116.21	51.59	51.59	0.00
DISCCART	722610.53	4131126.14	51.55	51.55	0.00
DISCCART	722587.58	4131136.07	51.49	51.49	0.00
DISCCART	722564.64	4131146.01	51.49	51.49	0.00
DISCCART	722541.70	4131155.94	51.61	51.61	0.00
DISCCART	722518.76	4131165.87	51.50	51.50	0.00
DISCCART	722495.81	4131175.80	51.52	51.52	0.00
DISCCART	722472.87	4131185.73	51.51	51.51	0.00
DISCCART	722449.93	4131195.66	51.54	51.54	0.00
DISCCART	722426.99	4131205.60	51.58	51.58	0.00
DISCCART	722404.04	4131215.53	51.60	51.60	0.00
DISCCART	722381.10	4131225.46	51.63	51.63	0.00
DISCCART	722358.16	4131235.39	51.66	51.66	0.00
DISCCART	722335.21	4131245.32	51.69	51.69	0.00
DISCCART	722312.27	4131255.25	51.51	51.51	0.00
DISCCART	722289.33	4131265.18	51.56	51.56	0.00
DISCCART	722266.39	4131275.12	51.56	51.56	0.00
DISCCART	722243.44	4131285.05	51.21	51.21	0.00
DISCCART	722220.50	4131294.98	51.44	51.44	0.00
DISCCART	722197.56	4131304.91	51.40	51.40	0.00
DISCCART	722174.62	4131314.84	51.40	51.40	0.00
DISCCART	722151.67	4131324.77	51.60	51.60	0.00
DISCCART	722128.73	4131334.71	51.33	51.33	0.00
DISCCART	722148.89	4131034.56	52.27	52.27	0.00
DISCCART	722171.91	4131024.81	52.49	52.49	0.00
DISCCART	722194.93	4131015.07	52.54	52.54	0.00
DISCCART	722217.96	4131005.32	52.65	52.65	0.00
DISCCART	722240.98	4130995.57	52.71	52.71	0.00
DISCCART	722264.00	4130985.83	52.74	52.74	0.00
DISCCART	722287.02	4130976.08	52.77	52.77	0.00
DISCCART	722310.04	4130966.33	52.85	52.85	0.00
DISCCART	722333.06	4130956.59	52.75	52.75	0.00
DISCCART	722356.09	4130946.84	52.89	52.89	0.00
DISCCART	722379.11	4130937.09	52.85	52.85	0.00
DISCCART	722402.13	4130927.35	52.75	52.75	0.00
DISCCART	722417.99	4130974.93	53.24	53.24	0.00
DISCCART	722394.97	4130984.68	53.34	53.34	0.00
DISCCART	722371.95	4130994.42	53.19	53.19	0.00
DISCCART	722348.92	4131004.17	53.23	53.23	0.00
DISCCART	722325.90	4131013.92	53.25	53.25	0.00

DISCCART	722302.88	4131023.66	53.12	53.12	0.00
DISCCART	722279.86	4131033.41	53.22	53.22	0.00
DISCCART	722256.84	4131043.16	53.15	53.15	0.00
DISCCART	722233.82	4131052.90	53.22	53.22	0.00
DISCCART	722210.79	4131062.65	53.18	53.18	0.00
DISCCART	722187.77	4131072.39	53.05	53.05	0.00
DISCCART	721461.30	4131276.70	48.97	48.97	0.00
DISCCART	721484.22	4131266.71	48.89	48.89	0.00
DISCCART	721507.14	4131256.72	48.80	48.80	0.00
DISCCART	721530.06	4131246.74	48.73	48.73	0.00
DISCCART	721552.97	4131236.75	48.70	48.70	0.00
DISCCART	721575.89	4131226.76	48.74	48.74	0.00
DISCCART	721598.81	4131216.78	48.86	48.86	0.00
DISCCART	721621.73	4131206.79	48.90	48.90	0.00
DISCCART	721644.65	4131196.80	48.84	48.84	0.00
DISCCART	721667.57	4131186.82	49.02	49.02	0.00
DISCCART	721690.49	4131176.83	48.99	48.99	0.00
DISCCART	721713.41	4131166.84	49.11	49.11	0.00
DISCCART	721736.32	4131156.86	49.56	49.56	0.00
DISCCART	721759.24	4131146.87	49.67	49.67	0.00
DISCCART	721782.16	4131136.88	49.81	49.81	0.00
DISCCART	721805.08	4131126.90	50.10	50.10	0.00
DISCCART	721828.00	4131116.91	50.29	50.29	0.00
DISCCART	721850.92	4131106.92	50.32	50.32	0.00
DISCCART	721873.84	4131096.94	50.74	50.74	0.00
DISCCART	721896.76	4131086.95	50.76	50.76	0.00
DISCCART	721903.62	4131127.59	51.54	51.54	0.00
DISCCART	721880.70	4131137.58	51.53	51.53	0.00
DISCCART	721857.78	4131147.57	51.50	51.50	0.00
DISCCART	721834.87	4131157.55	51.42	51.42	0.00
DISCCART	721811.95	4131167.54	51.33	51.33	0.00
DISCCART	721789.03	4131177.53	51.19	51.19	0.00
DISCCART	721766.11	4131187.51	51.02	51.02	0.00
DISCCART	721743.19	4131197.50	50.66	50.66	0.00
DISCCART	721720.27	4131207.48	50.52	50.52	0.00
DISCCART	721697.35	4131217.47	50.48	50.48	0.00
DISCCART	721674.43	4131227.46	50.38	50.38	0.00
DISCCART	721651.52	4131237.44	50.22	50.22	0.00
DISCCART	721628.60	4131247.43	50.21	50.21	0.00
DISCCART	721605.68	4131257.42	50.19	50.19	0.00
DISCCART	721582.76	4131267.40	49.79	49.79	0.00
DISCCART	721559.84	4131277.39	49.60	49.60	0.00
DISCCART	721536.92	4131287.38	49.56	49.56	0.00
DISCCART	721514.00	4131297.36	49.76	49.76	0.00
DISCCART	721491.08	4131307.35	50.06	50.06	0.00
DISCCART	721412.42	4131178.31	48.42	48.42	0.00
DISCCART	721435.37	4131168.40	48.19	48.19	0.00
DISCCART	721458.32	4131158.48	48.16	48.16	0.00
DISCCART	721481.27	4131148.57	48.16	48.16	0.00
DISCCART	721504.22	4131138.66	48.26	48.26	0.00

DISCCART	721527.17	4131128.74	48.46	48.46	0.00
DISCCART	721550.13	4131118.83	48.46	48.46	0.00
DISCCART	721573.08	4131108.92	48.46	48.46	0.00
DISCCART	721596.03	4131099.00	48.46	48.46	0.00
DISCCART	721618.98	4131089.09	48.46	48.46	0.00
DISCCART	721641.93	4131079.18	48.46	48.46	0.00
DISCCART	721664.88	4131069.26	48.45	48.45	0.00
DISCCART	721687.83	4131059.35	48.32	48.32	0.00
DISCCART	721710.78	4131049.44	48.17	48.17	0.00
DISCCART	721733.73	4131039.52	48.16	48.16	0.00
DISCCART	721756.68	4131029.61	48.38	48.38	0.00
DISCCART	721779.63	4131019.70	48.55	48.55	0.00
DISCCART	721802.58	4131009.78	48.86	48.86	0.00
DISCCART	721825.53	4130999.87	49.09	49.09	0.00
DISCCART	721848.48	4130989.95	49.32	49.32	0.00
DISCCART	721871.43	4130980.04	49.36	49.36	0.00
DISCCART	721894.38	4130970.13	49.54	49.54	0.00
DISCCART	721917.33	4130960.21	49.91	49.91	0.00
DISCCART	721940.28	4130950.30	49.71	49.71	0.00
DISCCART	721963.23	4130940.39	49.88	49.88	0.00
DISCCART	721986.18	4130930.47	49.91	49.91	0.00
DISCCART	722009.13	4130920.56	49.82	49.82	0.00
DISCCART	722032.08	4130910.65	50.26	50.26	0.00
DISCCART	722055.03	4130900.73	50.33	50.33	0.00
DISCCART	722077.99	4130890.82	50.58	50.58	0.00
DISCCART	722100.94	4130880.91	50.90	50.90	0.00
DISCCART	722123.89	4130870.99	50.90	50.90	0.00
DISCCART	722146.84	4130861.08	51.09	51.09	0.00
DISCCART	722169.79	4130851.17	51.23	51.23	0.00
DISCCART	722192.74	4130841.25	51.27	51.27	0.00
DISCCART	722215.69	4130831.34	51.19	51.19	0.00
DISCCART	722238.64	4130821.43	51.32	51.32	0.00
DISCCART	722261.59	4130811.51	51.45	51.45	0.00
DISCCART	722284.54	4130801.60	51.48	51.48	0.00
DISCCART	722307.49	4130791.68	51.40	51.40	0.00
DISCCART	722330.44	4130781.77	51.34	51.34	0.00
DISCCART	722374.04	4130839.19	52.16	52.16	0.00
DISCCART	722351.09	4130849.10	52.26	52.26	0.00
DISCCART	722328.14	4130859.02	52.31	52.31	0.00
DISCCART	722305.19	4130868.93	52.17	52.17	0.00
DISCCART	722282.24	4130878.84	52.04	52.04	0.00
DISCCART	722259.29	4130888.76	51.91	51.91	0.00
DISCCART	722236.34	4130898.67	51.84	51.84	0.00
DISCCART	722213.38	4130908.58	51.82	51.82	0.00
DISCCART	722190.43	4130918.50	51.82	51.82	0.00
DISCCART	722167.48	4130928.41	51.68	51.68	0.00
DISCCART	722144.53	4130938.33	51.55	51.55	0.00
DISCCART	722121.58	4130948.24	51.42	51.42	0.00
DISCCART	722098.63	4130958.15	51.25	51.25	0.00
DISCCART	722075.68	4130968.07	50.83	50.83	0.00

DISCCART	722052.73	4130977.98	50.57	50.57	0.00
DISCCART	722029.78	4130987.89	50.55	50.55	0.00
DISCCART	722006.83	4130997.81	50.32	50.32	0.00
DISCCART	721983.88	4131007.72	50.29	50.29	0.00
DISCCART	721960.93	4131017.63	50.31	50.31	0.00
DISCCART	721937.98	4131027.55	50.22	50.22	0.00
DISCCART	721915.03	4131037.46	50.15	50.15	0.00
DISCCART	721892.08	4131047.37	50.31	50.31	0.00
DISCCART	721869.13	4131057.29	50.11	50.11	0.00
DISCCART	721846.18	4131067.20	50.00	50.00	0.00
DISCCART	721823.23	4131077.11	49.70	49.70	0.00
DISCCART	721800.28	4131087.03	49.56	49.56	0.00
DISCCART	721777.33	4131096.94	49.26	49.26	0.00
DISCCART	721754.38	4131106.85	48.90	48.90	0.00
DISCCART	721731.43	4131116.77	48.67	48.67	0.00
DISCCART	721708.48	4131126.68	48.46	48.46	0.00
DISCCART	721685.52	4131136.60	48.29	48.29	0.00
DISCCART	721662.57	4131146.51	48.30	48.30	0.00
DISCCART	721639.62	4131156.42	48.26	48.26	0.00
DISCCART	721616.67	4131166.34	48.17	48.17	0.00
DISCCART	721593.72	4131176.25	48.32	48.32	0.00
DISCCART	721570.77	4131186.16	48.25	48.25	0.00
DISCCART	721547.82	4131196.08	48.17	48.17	0.00
DISCCART	721524.87	4131205.99	48.27	48.27	0.00
DISCCART	721501.92	4131215.90	48.37	48.37	0.00
DISCCART	721478.97	4131225.82	48.47	48.47	0.00
DISCCART	721456.02	4131235.73	48.57	48.57	0.00
DISCCART	721024.56	4133243.02	49.23	49.23	0.00
DISCCART	720598.35	4133478.99	48.87	48.87	0.00
DISCCART	721792.22	4132066.34	50.60	50.60	1.80
DISCCART	721583.83	4131986.08	50.29	50.29	0.00
DISCCART	721606.81	4131976.23	50.29	50.29	0.00
DISCCART	721629.78	4131966.37	50.29	50.29	0.00
DISCCART	721652.76	4131956.52	50.29	50.29	0.00
DISCCART	721675.73	4131946.66	50.29	50.29	0.00
DISCCART	721698.71	4131936.81	50.29	50.29	0.00
DISCCART	721721.69	4131926.95	50.29	50.29	0.00
DISCCART	721744.66	4131917.10	50.29	50.29	0.00
DISCCART	721767.64	4131907.24	50.29	50.29	0.00
DISCCART	721790.61	4131897.38	50.29	50.29	0.00
DISCCART	721813.59	4131887.53	50.29	50.29	0.00
DISCCART	721836.56	4131877.67	50.29	50.29	0.00
DISCCART	721859.54	4131867.82	50.29	50.29	0.00
DISCCART	721882.51	4131857.96	50.29	50.29	0.00
DISCCART	721905.49	4131848.11	50.29	50.29	0.00
DISCCART	721928.46	4131838.25	50.29	50.29	0.00
DISCCART	721951.44	4131828.40	50.29	50.29	0.00
DISCCART	721974.42	4131818.54	50.29	50.29	0.00
DISCCART	721997.39	4131808.69	50.29	50.29	0.00
DISCCART	722020.37	4131798.83	50.29	50.29	0.00

DISCCART	722043.34	4131788.98	50.29	50.29	0.00
DISCCART	722066.32	4131779.12	50.29	50.29	0.00
DISCCART	722089.29	4131769.27	50.29	50.29	0.00
DISCCART	722112.27	4131759.41	50.29	50.29	0.00
DISCCART	722135.24	4131749.56	50.29	50.29	0.00
DISCCART	722158.22	4131739.70	50.29	50.29	0.00
DISCCART	722181.20	4131729.85	50.29	50.29	0.00
DISCCART	722204.17	4131719.99	50.29	50.29	0.00
DISCCART	722227.15	4131710.13	50.29	50.29	0.00
DISCCART	722250.12	4131700.28	50.29	50.29	0.00
DISCCART	722273.10	4131690.42	50.29	50.29	0.00
DISCCART	722296.07	4131680.57	50.29	50.29	0.00
DISCCART	722319.05	4131670.71	50.29	50.29	0.00
DISCCART	722342.02	4131660.86	50.29	50.29	0.00
DISCCART	722365.00	4131651.00	50.29	50.29	0.00
DISCCART	722387.97	4131641.15	50.29	50.29	0.00
DISCCART	722410.95	4131631.29	50.29	50.29	0.00
DISCCART	722433.93	4131621.44	50.29	50.29	0.00
DISCCART	722456.90	4131611.58	50.32	50.32	0.00
DISCCART	722479.88	4131601.73	50.56	50.56	0.00
DISCCART	722502.85	4131591.87	50.60	50.60	0.00
DISCCART	722525.83	4131582.02	50.60	50.60	0.00
DISCCART	722548.80	4131572.16	50.60	50.60	0.00
DISCCART	722571.78	4131562.31	50.60	50.60	0.00
DISCCART	722594.75	4131552.45	50.60	50.60	0.00
DISCCART	722617.73	4131542.59	50.60	50.60	0.00
DISCCART	722640.71	4131532.74	50.60	50.60	0.00
DISCCART	722663.68	4131522.88	50.60	50.60	0.00
DISCCART	722686.66	4131513.03	50.60	50.60	0.00
DISCCART	722709.63	4131503.17	50.60	50.60	0.00
DISCCART	722732.61	4131493.32	50.60	50.60	0.00
DISCCART	722755.58	4131483.46	50.60	50.60	0.00
DISCCART	722778.56	4131473.61	50.60	50.60	0.00
DISCCART	722801.53	4131463.75	50.60	50.60	0.00
DISCCART	722824.51	4131453.90	50.60	50.60	0.00
DISCCART	722847.48	4131444.04	50.61	50.61	0.00
DISCCART	722870.46	4131434.19	50.60	50.60	0.00
DISCCART	722893.44	4131424.33	50.60	50.60	0.00
DISCCART	722916.41	4131414.48	50.64	50.64	0.00
DISCCART	722939.39	4131404.62	50.65	50.65	0.00
DISCCART	722962.36	4131394.77	50.89	50.89	0.00
DISCCART	722985.34	4131384.91	50.90	50.90	0.00
DISCCART	723008.31	4131375.06	50.90	50.90	0.00
DISCCART	723031.29	4131365.20	50.90	50.90	0.00
DISCCART	723054.26	4131355.34	50.90	50.90	0.00
DISCCART	723077.24	4131345.49	50.90	50.90	0.00
DISCCART	723100.22	4131335.63	50.90	50.90	0.00
DISCCART	723123.19	4131325.78	50.90	50.90	0.00
DISCCART	723146.17	4131315.92	50.90	50.90	0.00
DISCCART	723169.14	4131306.07	50.90	50.90	0.00

DISCCART	723192.12	4131296.21	50.90	50.90	0.00
DISCCART	723267.01	4131369.79	51.01	51.01	0.00
DISCCART	723245.67	4131382.05	50.90	50.90	0.00
DISCCART	723222.69	4131391.91	51.02	51.02	0.00
DISCCART	723199.72	4131401.76	51.20	51.20	0.00
DISCCART	723176.74	4131411.62	51.21	51.21	0.00
DISCCART	723153.76	4131421.48	51.11	51.11	0.00
DISCCART	723130.79	4131431.33	51.17	51.17	0.00
DISCCART	723107.81	4131441.19	51.14	51.14	0.00
DISCCART	723084.84	4131451.04	50.91	50.91	0.00
DISCCART	723061.86	4131460.90	50.90	50.90	0.00
DISCCART	723038.89	4131470.75	50.90	50.90	0.00
DISCCART	723015.91	4131480.61	50.90	50.90	0.00
DISCCART	722992.94	4131490.46	50.90	50.90	0.00
DISCCART	722969.96	4131500.32	50.90	50.90	0.00
DISCCART	722946.99	4131510.17	50.90	50.90	0.00
DISCCART	722924.01	4131520.03	50.90	50.90	0.00
DISCCART	722901.03	4131529.88	50.90	50.90	0.00
DISCCART	722878.06	4131539.74	50.90	50.90	0.00
DISCCART	722855.08	4131549.59	50.90	50.90	0.00
DISCCART	722832.11	4131559.45	50.90	50.90	0.00
DISCCART	722809.13	4131569.30	50.90	50.90	0.00
DISCCART	722786.16	4131579.16	50.90	50.90	0.00
DISCCART	722763.18	4131589.02	50.90	50.90	0.00
DISCCART	722740.21	4131598.87	50.83	50.83	0.00
DISCCART	722717.23	4131608.73	50.78	50.78	0.00
DISCCART	722694.26	4131618.58	50.60	50.60	0.00
DISCCART	722671.28	4131628.44	50.60	50.60	0.00
DISCCART	722648.30	4131638.29	50.60	50.60	0.00
DISCCART	722625.33	4131648.15	50.60	50.60	0.00
DISCCART	722602.35	4131658.00	50.60	50.60	0.00
DISCCART	722579.38	4131667.86	50.60	50.60	0.00
DISCCART	722556.40	4131677.71	50.60	50.60	0.00
DISCCART	722533.43	4131687.57	50.60	50.60	0.00
DISCCART	722510.45	4131697.42	50.56	50.56	0.00
DISCCART	722487.48	4131707.28	50.33	50.33	0.00
DISCCART	722464.50	4131717.13	50.29	50.29	0.00
DISCCART	722441.52	4131726.99	50.29	50.29	0.00
DISCCART	722418.55	4131736.84	50.29	50.29	0.00
DISCCART	722395.57	4131746.70	50.29	50.29	0.00
DISCCART	722372.60	4131756.55	50.29	50.29	0.00
DISCCART	722349.62	4131766.41	50.29	50.29	0.00
DISCCART	722326.65	4131776.27	50.29	50.29	0.00
DISCCART	722303.67	4131786.12	50.29	50.29	0.00
DISCCART	722280.70	4131795.98	50.29	50.29	0.00
DISCCART	722257.72	4131805.83	50.29	50.29	0.00
DISCCART	722234.75	4131815.69	50.29	50.29	0.00
DISCCART	722211.77	4131825.54	50.29	50.29	0.00
DISCCART	722188.79	4131835.40	50.29	50.29	0.00
DISCCART	722165.82	4131845.25	50.29	50.29	0.00

DISCCART	722142.84	4131855.11	50.29	50.29	0.00
DISCCART	722119.87	4131864.96	50.29	50.29	0.00
DISCCART	722096.89	4131874.82	50.29	50.29	0.00
DISCCART	722073.92	4131884.67	50.29	50.29	0.00
DISCCART	722050.94	4131894.53	50.29	50.29	0.00
DISCCART	722027.97	4131904.38	50.29	50.29	0.00
DISCCART	722004.99	4131914.24	50.29	50.29	0.00
DISCCART	721982.01	4131924.09	50.29	50.29	0.00
DISCCART	721959.04	4131933.95	50.29	50.29	0.00
DISCCART	721936.06	4131943.81	50.29	50.29	0.00
DISCCART	721913.09	4131953.66	50.29	50.29	0.00
DISCCART	721890.11	4131963.52	50.29	50.29	0.00
DISCCART	721867.14	4131973.37	50.29	50.29	0.00
DISCCART	721844.16	4131983.23	50.32	50.32	0.00
DISCCART	721821.19	4131993.08	50.48	50.48	0.00
DISCCART	721798.21	4132002.94	50.58	50.58	0.00
DISCCART	721775.24	4132012.79	50.60	50.60	0.00
DISCCART	721752.26	4132022.65	50.60	50.60	0.00
DISCCART	721729.28	4132032.50	50.55	50.55	0.00
DISCCART	721706.31	4132042.36	50.31	50.31	0.00
DISCCART	721683.33	4132052.21	50.29	50.29	0.00
DISCCART	721660.36	4132062.07	50.29	50.29	0.00
DISCCART	721637.38	4132071.92	50.29	50.29	0.00
DISCCART	721841.17	4132144.72	50.60	50.60	0.00
DISCCART	721864.15	4132134.89	50.49	50.49	0.00
DISCCART	721887.14	4132125.06	50.29	50.29	0.00
DISCCART	721910.12	4132115.23	50.29	50.29	0.00
DISCCART	721933.11	4132105.40	50.29	50.29	0.00
DISCCART	721956.09	4132095.56	50.29	50.29	0.00
DISCCART	721979.08	4132085.73	50.29	50.29	0.00
DISCCART	722002.07	4132075.90	50.29	50.29	0.00
DISCCART	722025.05	4132066.07	50.29	50.29	0.00
DISCCART	722048.04	4132056.24	50.29	50.29	0.00
DISCCART	722071.02	4132046.41	50.29	50.29	0.00
DISCCART	722094.01	4132036.57	50.29	50.29	0.00
DISCCART	722116.99	4132026.74	50.29	50.29	0.00
DISCCART	722139.98	4132016.91	50.29	50.29	0.00
DISCCART	722162.97	4132007.08	50.29	50.29	0.00
DISCCART	722185.95	4131997.25	50.29	50.29	0.00
DISCCART	722208.94	4131987.42	50.29	50.29	0.00
DISCCART	722231.92	4131977.58	50.29	50.29	0.00
DISCCART	722254.91	4131967.75	50.29	50.29	0.00
DISCCART	722277.89	4131957.92	50.29	50.29	0.00
DISCCART	722300.88	4131948.09	50.29	50.29	0.00
DISCCART	722323.86	4131938.26	50.29	50.29	0.00
DISCCART	722346.85	4131928.43	50.29	50.29	0.00
DISCCART	722369.84	4131918.60	50.29	50.29	0.00
DISCCART	722392.82	4131908.76	50.29	50.29	0.00
DISCCART	722415.81	4131898.93	50.29	50.29	0.00
DISCCART	722438.79	4131889.10	50.29	50.29	0.00

DISCCART	722461.78	4131879.27	50.29	50.29	0.00
DISCCART	722484.76	4131869.44	50.29	50.29	0.00
DISCCART	722507.75	4131859.61	50.29	50.29	0.00
DISCCART	722530.74	4131849.77	50.46	50.46	0.00
DISCCART	722553.72	4131839.94	50.60	50.60	0.00
DISCCART	722576.71	4131830.11	50.60	50.60	0.00
DISCCART	722599.69	4131820.28	50.60	50.60	0.00
DISCCART	722622.68	4131810.45	50.60	50.60	0.00
DISCCART	722645.66	4131800.62	50.60	50.60	0.00
DISCCART	722668.65	4131790.78	50.60	50.60	0.00
DISCCART	722691.63	4131780.95	50.60	50.60	0.00
DISCCART	722714.62	4131771.12	50.60	50.60	0.00
DISCCART	722737.61	4131761.29	50.74	50.74	0.00
DISCCART	722760.59	4131751.46	50.90	50.90	0.00
DISCCART	722783.58	4131741.63	50.90	50.90	0.00
DISCCART	722806.56	4131731.79	50.90	50.90	0.00
DISCCART	722829.55	4131721.96	50.90	50.90	0.00
DISCCART	722852.53	4131712.13	50.90	50.90	0.00
DISCCART	722875.52	4131702.30	50.90	50.90	0.00
DISCCART	722898.51	4131692.47	50.90	50.90	0.00
DISCCART	722921.49	4131682.64	50.90	50.90	0.00
DISCCART	722944.48	4131672.80	51.00	51.00	0.00
DISCCART	722967.46	4131662.97	51.10	51.10	0.00
DISCCART	722990.45	4131653.14	51.18	51.18	0.00
DISCCART	723013.43	4131643.31	51.19	51.19	0.00
DISCCART	723036.42	4131633.48	51.14	51.14	0.00
DISCCART	723059.41	4131623.65	51.21	51.21	0.00
DISCCART	723082.39	4131613.82	51.21	51.21	0.00
DISCCART	723105.38	4131603.98	51.34	51.34	0.00
DISCCART	723128.36	4131594.15	51.26	51.26	0.00
DISCCART	723151.35	4131584.32	51.28	51.28	0.00
DISCCART	723174.33	4131574.49	51.40	51.40	0.00
DISCCART	723197.32	4131564.66	51.23	51.23	0.00
DISCCART	723220.30	4131554.83	51.04	51.04	0.00
DISCCART	723243.29	4131544.99	50.90	50.90	0.00
DISCCART	723266.28	4131535.16	50.92	50.92	0.00
DISCCART	723289.26	4131525.33	51.16	51.16	0.00
DISCCART	723316.75	4131622.34	51.51	51.51	0.00
DISCCART	723293.77	4131632.17	51.51	51.51	0.00
DISCCART	723270.78	4131642.00	51.28	51.28	0.00
DISCCART	723247.80	4131651.83	51.21	51.21	0.00
DISCCART	723224.81	4131661.66	51.30	51.30	0.00
DISCCART	723201.82	4131671.49	51.51	51.51	0.00
DISCCART	723178.84	4131681.33	51.51	51.51	0.00
DISCCART	723155.85	4131691.16	51.51	51.51	0.00
DISCCART	723132.87	4131700.99	51.50	51.50	0.00
DISCCART	723109.88	4131710.82	51.47	51.47	0.00
DISCCART	723086.90	4131720.65	51.24	51.24	0.00
DISCCART	723063.91	4131730.48	51.21	51.21	0.00
DISCCART	723040.93	4131740.31	51.21	51.21	0.00

DISCCART	723017.94	4131750.15	51.21	51.21	0.00
DISCCART	722994.95	4131759.98	51.21	51.21	0.00
DISCCART	722971.97	4131769.81	51.21	51.21	0.00
DISCCART	722948.98	4131779.64	51.21	51.21	0.00
DISCCART	722926.00	4131789.47	51.21	51.21	0.00
DISCCART	722903.01	4131799.30	51.21	51.21	0.00
DISCCART	722880.03	4131809.14	51.21	51.21	0.00
DISCCART	722857.04	4131818.97	51.21	51.21	0.00
DISCCART	722834.05	4131828.80	51.11	51.11	0.00
DISCCART	722811.07	4131838.63	50.90	50.90	0.00
DISCCART	722788.08	4131848.46	50.90	50.90	0.00
DISCCART	722765.10	4131858.29	50.90	50.90	0.00
DISCCART	722742.11	4131868.13	50.90	50.90	0.00
DISCCART	722719.13	4131877.96	50.85	50.85	0.00
DISCCART	722696.14	4131887.79	50.65	50.65	0.00
DISCCART	722673.16	4131897.62	50.64	50.64	0.00
DISCCART	722650.17	4131907.45	50.60	50.60	0.00
DISCCART	722627.18	4131917.28	50.60	50.60	0.00
DISCCART	722604.20	4131927.12	50.60	50.60	0.00
DISCCART	722581.21	4131936.95	50.60	50.60	0.00
DISCCART	722558.23	4131946.78	50.60	50.60	0.00
DISCCART	722535.24	4131956.61	50.51	50.51	0.00
DISCCART	722512.26	4131966.44	50.29	50.29	0.00
DISCCART	722489.27	4131976.27	50.29	50.29	0.00
DISCCART	722466.28	4131986.11	50.29	50.29	0.00
DISCCART	722443.30	4131995.94	50.29	50.29	0.00
DISCCART	722420.31	4132005.77	50.29	50.29	0.00
DISCCART	722397.33	4132015.60	50.29	50.29	0.00
DISCCART	722374.34	4132025.43	50.29	50.29	0.00
DISCCART	722351.36	4132035.26	50.29	50.29	0.00
DISCCART	722328.37	4132045.09	50.29	50.29	0.00
DISCCART	722305.38	4132054.93	50.29	50.29	0.00
DISCCART	722282.40	4132064.76	50.29	50.29	0.00
DISCCART	722259.41	4132074.59	50.29	50.29	0.00
DISCCART	722236.43	4132084.42	50.29	50.29	0.00
DISCCART	722213.44	4132094.25	50.29	50.29	0.00
DISCCART	722190.46	4132104.08	50.29	50.29	0.00
DISCCART	722167.47	4132113.92	50.29	50.29	0.00
DISCCART	722144.49	4132123.75	50.29	50.29	0.00
DISCCART	722121.50	4132133.58	50.29	50.29	0.00
DISCCART	722098.51	4132143.41	50.29	50.29	0.00
DISCCART	722075.53	4132153.24	50.29	50.29	0.00
DISCCART	722052.54	4132163.07	50.29	50.29	0.00
DISCCART	722029.56	4132172.91	50.29	50.29	0.00
DISCCART	722006.57	4132182.74	50.29	50.29	0.00
DISCCART	721983.59	4132192.57	50.29	50.29	0.00
DISCCART	721960.60	4132202.40	50.37	50.37	0.00
DISCCART	721937.61	4132212.23	50.57	50.57	0.00
DISCCART	721914.63	4132222.06	50.60	50.60	0.00
DISCCART	721891.64	4132231.90	50.60	50.60	0.00

DISCCART	721853.38	4132064.29	50.60	50.60	0.00
DISCCART	721876.36	4132054.46	50.37	50.37	0.00
DISCCART	721899.34	4132044.62	50.29	50.29	0.00
DISCCART	721922.33	4132034.78	50.29	50.29	0.00
DISCCART	721945.31	4132024.94	50.29	50.29	0.00
DISCCART	721968.29	4132015.11	50.29	50.29	0.00
DISCCART	721991.28	4132005.27	50.29	50.29	0.00
DISCCART	722014.26	4131995.43	50.29	50.29	0.00
DISCCART	722037.24	4131985.59	50.29	50.29	0.00
DISCCART	722060.23	4131975.75	50.29	50.29	0.00
DISCCART	722083.21	4131965.92	50.29	50.29	0.00
DISCCART	722106.19	4131956.08	50.29	50.29	0.00
DISCCART	722129.17	4131946.24	50.29	50.29	0.00
DISCCART	722152.16	4131936.40	50.29	50.29	0.00
DISCCART	722175.14	4131926.57	50.29	50.29	0.00
DISCCART	722198.12	4131916.73	50.29	50.29	0.00
DISCCART	722221.11	4131906.89	50.29	50.29	0.00
DISCCART	722244.09	4131897.05	50.29	50.29	0.00
DISCCART	722267.07	4131887.22	50.29	50.29	0.00
DISCCART	722290.06	4131877.38	50.29	50.29	0.00
DISCCART	722313.04	4131867.54	50.29	50.29	0.00
DISCCART	722336.02	4131857.70	50.29	50.29	0.00
DISCCART	722359.01	4131847.86	50.29	50.29	0.00
DISCCART	722381.99	4131838.03	50.29	50.29	0.00
DISCCART	722404.97	4131828.19	50.29	50.29	0.00
DISCCART	722427.95	4131818.35	50.29	50.29	0.00
DISCCART	722450.94	4131808.51	50.29	50.29	0.00
DISCCART	722473.92	4131798.68	50.29	50.29	0.00
DISCCART	722496.90	4131788.84	50.40	50.40	0.00
DISCCART	722519.89	4131779.00	50.47	50.47	0.00
DISCCART	722542.87	4131769.16	50.59	50.59	0.00
DISCCART	722565.85	4131759.32	50.60	50.60	0.00
DISCCART	722588.84	4131749.49	50.60	50.60	0.00
DISCCART	722611.82	4131739.65	50.60	50.60	0.00
DISCCART	722634.80	4131729.81	50.60	50.60	0.00
DISCCART	722657.78	4131719.97	50.60	50.60	0.00
DISCCART	722680.77	4131710.14	50.60	50.60	0.00
DISCCART	722703.75	4131700.30	50.60	50.60	0.00
DISCCART	722726.73	4131690.46	50.62	50.62	0.00
DISCCART	722749.72	4131680.62	50.86	50.86	0.00
DISCCART	722772.70	4131670.78	50.90	50.90	0.00
DISCCART	722795.68	4131660.95	50.90	50.90	0.00
DISCCART	722818.67	4131651.11	50.90	50.90	0.00
DISCCART	722841.65	4131641.27	50.90	50.90	0.00
DISCCART	722864.63	4131631.43	50.90	50.90	0.00
DISCCART	722887.61	4131621.60	50.90	50.90	0.00
DISCCART	722910.60	4131611.76	50.90	50.90	0.00
DISCCART	722933.58	4131601.92	50.90	50.90	0.00
DISCCART	722956.56	4131592.08	50.90	50.90	0.00
DISCCART	722979.55	4131582.24	50.90	50.90	0.00

DISCCART	723002.53	4131572.41	50.90	50.90	0.00
DISCCART	723025.51	4131562.57	50.90	50.90	0.00
DISCCART	723048.50	4131552.73	50.90	50.90	0.00
DISCCART	723071.48	4131542.89	50.90	50.90	0.00
DISCCART	723094.46	4131533.06	51.01	51.01	0.00
DISCCART	723117.44	4131523.22	51.21	51.21	0.00
DISCCART	723140.43	4131513.38	51.21	51.21	0.00
DISCCART	723163.41	4131503.54	51.21	51.21	0.00
DISCCART	723186.39	4131493.71	51.21	51.21	0.00
DISCCART	723209.38	4131483.87	51.15	51.15	0.00
DISCCART	723232.36	4131474.03	50.92	50.92	0.00
DISCCART	723255.34	4131464.19	50.90	50.90	0.00
DISCCART	723278.33	4131454.35	51.05	51.05	0.00
DISCCART	723260.99	4131463.95	50.90	50.90	0.00
DISCCART	723238.01	4131473.79	50.90	50.90	0.00
DISCCART	723215.03	4131483.62	51.09	51.09	0.00
DISCCART	723192.04	4131493.46	51.21	51.21	0.00
DISCCART	723169.06	4131503.30	51.21	51.21	0.00
DISCCART	723146.08	4131513.14	51.21	51.21	0.00
DISCCART	723123.10	4131522.98	51.21	51.21	0.00
DISCCART	723100.11	4131532.81	51.07	51.07	0.00
DISCCART	723077.13	4131542.65	50.90	50.90	0.00
DISCCART	723054.15	4131552.49	50.90	50.90	0.00
DISCCART	723031.16	4131562.33	50.90	50.90	0.00
DISCCART	723008.18	4131572.16	50.90	50.90	0.00
DISCCART	722985.20	4131582.00	50.90	50.90	0.00
DISCCART	722962.21	4131591.84	50.90	50.90	0.00
DISCCART	722939.23	4131601.68	50.90	50.90	0.00
DISCCART	722916.25	4131611.51	50.90	50.90	0.00
DISCCART	722893.27	4131621.35	50.90	50.90	0.00
DISCCART	722870.28	4131631.19	50.90	50.90	0.00
DISCCART	722847.30	4131641.03	50.90	50.90	0.00
DISCCART	722824.32	4131650.87	50.90	50.90	0.00
DISCCART	722801.33	4131660.70	50.90	50.90	0.00
DISCCART	722778.35	4131670.54	50.90	50.90	0.00
DISCCART	722755.37	4131680.38	50.90	50.90	0.00
DISCCART	722732.38	4131690.22	50.68	50.68	0.00
DISCCART	722709.40	4131700.05	50.60	50.60	0.00
DISCCART	722686.42	4131709.89	50.60	50.60	0.00
DISCCART	722663.43	4131719.73	50.60	50.60	0.00
DISCCART	722640.45	4131729.57	50.60	50.60	0.00
DISCCART	722617.47	4131739.41	50.60	50.60	0.00
DISCCART	722594.49	4131749.24	50.60	50.60	0.00
DISCCART	722571.50	4131759.08	50.60	50.60	0.00
DISCCART	722548.52	4131768.92	50.60	50.60	0.00
DISCCART	722525.54	4131778.76	50.50	50.50	0.00
DISCCART	722502.55	4131788.59	50.44	50.44	0.00
DISCCART	722479.57	4131798.43	50.29	50.29	0.00
DISCCART	722456.59	4131808.27	50.29	50.29	0.00
DISCCART	722433.60	4131818.11	50.29	50.29	0.00

DISCCART	722410.62	4131827.95	50.29	50.29	0.00
DISCCART	722387.64	4131837.78	50.29	50.29	0.00
DISCCART	722364.66	4131847.62	50.29	50.29	0.00
DISCCART	722341.67	4131857.46	50.29	50.29	0.00
DISCCART	722318.69	4131867.30	50.29	50.29	0.00
DISCCART	722295.71	4131877.13	50.29	50.29	0.00
DISCCART	722272.72	4131886.97	50.29	50.29	0.00
DISCCART	722249.74	4131896.81	50.29	50.29	0.00
DISCCART	722226.76	4131906.65	50.29	50.29	0.00
DISCCART	722203.77	4131916.49	50.29	50.29	0.00
DISCCART	722180.79	4131926.32	50.29	50.29	0.00
DISCCART	722157.81	4131936.16	50.29	50.29	0.00
DISCCART	722134.83	4131946.00	50.29	50.29	0.00
DISCCART	722111.84	4131955.84	50.29	50.29	0.00
DISCCART	722088.86	4131965.67	50.29	50.29	0.00
DISCCART	722065.88	4131975.51	50.29	50.29	0.00
DISCCART	722042.89	4131985.35	50.29	50.29	0.00
DISCCART	722019.91	4131995.19	50.29	50.29	0.00
DISCCART	721996.93	4132005.02	50.29	50.29	0.00
DISCCART	721973.94	4132014.86	50.29	50.29	0.00
DISCCART	721950.96	4132024.70	50.29	50.29	0.00
DISCCART	721927.98	4132034.54	50.29	50.29	0.00
DISCCART	721905.00	4132044.38	50.29	50.29	0.00
DISCCART	721882.01	4132054.21	50.31	50.31	0.00
DISCCART	721859.03	4132064.05	50.55	50.55	0.00
DISCCART	722093.85	4131295.32	52.01	52.01	0.00
DISCCART	722116.79	4131285.39	52.11	52.11	0.00
DISCCART	722139.74	4131275.46	52.06	52.06	0.00
DISCCART	722162.68	4131265.53	51.92	51.92	0.00
DISCCART	722185.62	4131255.59	51.81	51.81	0.00
DISCCART	722208.57	4131245.66	51.89	51.89	0.00
DISCCART	722231.51	4131235.73	52.13	52.13	0.00
DISCCART	722254.45	4131225.80	52.41	52.41	0.00
DISCCART	722277.39	4131215.87	52.49	52.49	0.00
DISCCART	722300.34	4131205.94	52.52	52.52	0.00
DISCCART	722323.28	4131196.00	52.52	52.52	0.00
DISCCART	722346.22	4131186.07	52.48	52.48	0.00
DISCCART	722369.16	4131176.14	52.47	52.47	0.00
DISCCART	722392.11	4131166.21	52.43	52.43	0.00
DISCCART	722415.05	4131156.28	52.54	52.54	0.00
DISCCART	722437.99	4131146.35	52.56	52.56	0.00
DISCCART	722460.93	4131136.42	52.63	52.63	0.00
DISCCART	722483.88	4131126.48	52.51	52.51	0.00
DISCCART	722506.82	4131116.55	52.52	52.52	0.00
DISCCART	722529.76	4131106.62	52.54	52.54	0.00
DISCCART	722552.71	4131096.69	52.50	52.50	0.00
DISCCART	722575.65	4131086.76	52.47	52.47	0.00
DISCCART	722598.59	4131076.83	52.44	52.44	0.00
DISCCART	722621.53	4131066.89	52.41	52.41	0.00
DISCCART	722644.48	4131056.96	52.49	52.49	0.00

DISCCART	722667.42	4131047.03	52.65	52.65	0.00
DISCCART	722690.36	4131037.10	52.61	52.61	0.00
DISCCART	722713.30	4131027.17	52.59	52.59	0.00
DISCCART	722736.25	4131017.24	52.56	52.56	0.00
DISCCART	722759.19	4131007.31	52.53	52.53	0.00
DISCCART	722771.12	4131056.62	51.47	51.47	0.00
DISCCART	722748.18	4131066.55	51.44	51.44	0.00
DISCCART	722725.24	4131076.49	51.48	51.48	0.00
DISCCART	722702.30	4131086.42	51.53	51.53	0.00
DISCCART	722679.35	4131096.35	51.53	51.53	0.00
DISCCART	722656.41	4131106.28	51.57	51.57	0.00
DISCCART	722633.47	4131116.21	51.59	51.59	0.00
DISCCART	722610.53	4131126.14	51.55	51.55	0.00
DISCCART	722587.58	4131136.07	51.49	51.49	0.00
DISCCART	722564.64	4131146.01	51.49	51.49	0.00
DISCCART	722541.70	4131155.94	51.61	51.61	0.00
DISCCART	722518.76	4131165.87	51.50	51.50	0.00
DISCCART	722495.81	4131175.80	51.52	51.52	0.00
DISCCART	722472.87	4131185.73	51.51	51.51	0.00
DISCCART	722449.93	4131195.66	51.54	51.54	0.00
DISCCART	722426.99	4131205.60	51.58	51.58	0.00
DISCCART	722404.04	4131215.53	51.60	51.60	0.00
DISCCART	722381.10	4131225.46	51.63	51.63	0.00
DISCCART	722358.16	4131235.39	51.66	51.66	0.00
DISCCART	722335.21	4131245.32	51.69	51.69	0.00
DISCCART	722312.27	4131255.25	51.51	51.51	0.00
DISCCART	722289.33	4131265.18	51.56	51.56	0.00
DISCCART	722266.39	4131275.12	51.56	51.56	0.00
DISCCART	722243.44	4131285.05	51.21	51.21	0.00
DISCCART	722220.50	4131294.98	51.44	51.44	0.00
DISCCART	722197.56	4131304.91	51.40	51.40	0.00
DISCCART	722174.62	4131314.84	51.40	51.40	0.00
DISCCART	722151.67	4131324.77	51.60	51.60	0.00
DISCCART	722128.73	4131334.71	51.33	51.33	0.00
DISCCART	722148.89	4131034.56	52.27	52.27	0.00
DISCCART	722171.91	4131024.81	52.49	52.49	0.00
DISCCART	722194.93	4131015.07	52.54	52.54	0.00
DISCCART	722217.96	4131005.32	52.65	52.65	0.00
DISCCART	722240.98	4130995.57	52.71	52.71	0.00
DISCCART	722264.00	4130985.83	52.74	52.74	0.00
DISCCART	722287.02	4130976.08	52.77	52.77	0.00
DISCCART	722310.04	4130966.33	52.85	52.85	0.00
DISCCART	722333.06	4130956.59	52.75	52.75	0.00
DISCCART	722356.09	4130946.84	52.89	52.89	0.00
DISCCART	722379.11	4130937.09	52.85	52.85	0.00
DISCCART	722402.13	4130927.35	52.75	52.75	0.00
DISCCART	722417.99	4130974.93	53.24	53.24	0.00
DISCCART	722394.97	4130984.68	53.34	53.34	0.00
DISCCART	722371.95	4130994.42	53.19	53.19	0.00
DISCCART	722348.92	4131004.17	53.23	53.23	0.00

DISCCART	722325.90	4131013.92	53.25	53.25	0.00
DISCCART	722302.88	4131023.66	53.12	53.12	0.00
DISCCART	722279.86	4131033.41	53.22	53.22	0.00
DISCCART	722256.84	4131043.16	53.15	53.15	0.00
DISCCART	722233.82	4131052.90	53.22	53.22	0.00
DISCCART	722210.79	4131062.65	53.18	53.18	0.00
DISCCART	722187.77	4131072.39	53.05	53.05	0.00
DISCCART	721461.30	4131276.70	48.97	48.97	0.00
DISCCART	721484.22	4131266.71	48.89	48.89	0.00
DISCCART	721507.14	4131256.72	48.80	48.80	0.00
DISCCART	721530.06	4131246.74	48.73	48.73	0.00
DISCCART	721552.97	4131236.75	48.70	48.70	0.00
DISCCART	721575.89	4131226.76	48.74	48.74	0.00
DISCCART	721598.81	4131216.78	48.86	48.86	0.00
DISCCART	721621.73	4131206.79	48.90	48.90	0.00
DISCCART	721644.65	4131196.80	48.84	48.84	0.00
DISCCART	721667.57	4131186.82	49.02	49.02	0.00
DISCCART	721690.49	4131176.83	48.99	48.99	0.00
DISCCART	721713.41	4131166.84	49.11	49.11	0.00
DISCCART	721736.32	4131156.86	49.56	49.56	0.00
DISCCART	721759.24	4131146.87	49.67	49.67	0.00
DISCCART	721782.16	4131136.88	49.81	49.81	0.00
DISCCART	721805.08	4131126.90	50.10	50.10	0.00
DISCCART	721828.00	4131116.91	50.29	50.29	0.00
DISCCART	721850.92	4131106.92	50.32	50.32	0.00
DISCCART	721873.84	4131096.94	50.74	50.74	0.00
DISCCART	721896.76	4131086.95	50.76	50.76	0.00
DISCCART	721903.62	4131127.59	51.54	51.54	0.00
DISCCART	721880.70	4131137.58	51.53	51.53	0.00
DISCCART	721857.78	4131147.57	51.50	51.50	0.00
DISCCART	721834.87	4131157.55	51.42	51.42	0.00
DISCCART	721811.95	4131167.54	51.33	51.33	0.00
DISCCART	721789.03	4131177.53	51.19	51.19	0.00
DISCCART	721766.11	4131187.51	51.02	51.02	0.00
DISCCART	721743.19	4131197.50	50.66	50.66	0.00
DISCCART	721720.27	4131207.48	50.52	50.52	0.00
DISCCART	721697.35	4131217.47	50.48	50.48	0.00
DISCCART	721674.43	4131227.46	50.38	50.38	0.00
DISCCART	721651.52	4131237.44	50.22	50.22	0.00
DISCCART	721628.60	4131247.43	50.21	50.21	0.00
DISCCART	721605.68	4131257.42	50.19	50.19	0.00
DISCCART	721582.76	4131267.40	49.79	49.79	0.00
DISCCART	721559.84	4131277.39	49.60	49.60	0.00
DISCCART	721536.92	4131287.38	49.56	49.56	0.00
DISCCART	721514.00	4131297.36	49.76	49.76	0.00
DISCCART	721491.08	4131307.35	50.06	50.06	0.00
DISCCART	721412.42	4131178.31	48.42	48.42	0.00
DISCCART	721435.37	4131168.40	48.19	48.19	0.00
DISCCART	721458.32	4131158.48	48.16	48.16	0.00
DISCCART	721481.27	4131148.57	48.16	48.16	0.00

DISCCART	721504.22	4131138.66	48.26	48.26	0.00
DISCCART	721527.17	4131128.74	48.46	48.46	0.00
DISCCART	721550.13	4131118.83	48.46	48.46	0.00
DISCCART	721573.08	4131108.92	48.46	48.46	0.00
DISCCART	721596.03	4131099.00	48.46	48.46	0.00
DISCCART	721618.98	4131089.09	48.46	48.46	0.00
DISCCART	721641.93	4131079.18	48.46	48.46	0.00
DISCCART	721664.88	4131069.26	48.45	48.45	0.00
DISCCART	721687.83	4131059.35	48.32	48.32	0.00
DISCCART	721710.78	4131049.44	48.17	48.17	0.00
DISCCART	721733.73	4131039.52	48.16	48.16	0.00
DISCCART	721756.68	4131029.61	48.38	48.38	0.00
DISCCART	721779.63	4131019.70	48.55	48.55	0.00
DISCCART	721802.58	4131009.78	48.86	48.86	0.00
DISCCART	721825.53	4130999.87	49.09	49.09	0.00
DISCCART	721848.48	4130989.95	49.32	49.32	0.00
DISCCART	721871.43	4130980.04	49.36	49.36	0.00
DISCCART	721894.38	4130970.13	49.54	49.54	0.00
DISCCART	721917.33	4130960.21	49.91	49.91	0.00
DISCCART	721940.28	4130950.30	49.71	49.71	0.00
DISCCART	721963.23	4130940.39	49.88	49.88	0.00
DISCCART	721986.18	4130930.47	49.91	49.91	0.00
DISCCART	722009.13	4130920.56	49.82	49.82	0.00
DISCCART	722032.08	4130910.65	50.26	50.26	0.00
DISCCART	722055.03	4130900.73	50.33	50.33	0.00
DISCCART	722077.99	4130890.82	50.58	50.58	0.00
DISCCART	722100.94	4130880.91	50.90	50.90	0.00
DISCCART	722123.89	4130870.99	50.90	50.90	0.00
DISCCART	722146.84	4130861.08	51.09	51.09	0.00
DISCCART	722169.79	4130851.17	51.23	51.23	0.00
DISCCART	722192.74	4130841.25	51.27	51.27	0.00
DISCCART	722215.69	4130831.34	51.19	51.19	0.00
DISCCART	722238.64	4130821.43	51.32	51.32	0.00
DISCCART	722261.59	4130811.51	51.45	51.45	0.00
DISCCART	722284.54	4130801.60	51.48	51.48	0.00
DISCCART	722307.49	4130791.68	51.40	51.40	0.00
DISCCART	722330.44	4130781.77	51.34	51.34	0.00
DISCCART	722374.04	4130839.19	52.16	52.16	0.00
DISCCART	722351.09	4130849.10	52.26	52.26	0.00
DISCCART	722328.14	4130859.02	52.31	52.31	0.00
DISCCART	722305.19	4130868.93	52.17	52.17	0.00
DISCCART	722282.24	4130878.84	52.04	52.04	0.00
DISCCART	722259.29	4130888.76	51.91	51.91	0.00
DISCCART	722236.34	4130898.67	51.84	51.84	0.00
DISCCART	722213.38	4130908.58	51.82	51.82	0.00
DISCCART	722190.43	4130918.50	51.82	51.82	0.00
DISCCART	722167.48	4130928.41	51.68	51.68	0.00
DISCCART	722144.53	4130938.33	51.55	51.55	0.00
DISCCART	722121.58	4130948.24	51.42	51.42	0.00
DISCCART	722098.63	4130958.15	51.25	51.25	0.00

DISCCART	722075.68	4130968.07	50.83	50.83	0.00
DISCCART	722052.73	4130977.98	50.57	50.57	0.00
DISCCART	722029.78	4130987.89	50.55	50.55	0.00
DISCCART	722006.83	4130997.81	50.32	50.32	0.00
DISCCART	721983.88	4131007.72	50.29	50.29	0.00
DISCCART	721960.93	4131017.63	50.31	50.31	0.00
DISCCART	721937.98	4131027.55	50.22	50.22	0.00
DISCCART	721915.03	4131037.46	50.15	50.15	0.00
DISCCART	721892.08	4131047.37	50.31	50.31	0.00
DISCCART	721869.13	4131057.29	50.11	50.11	0.00
DISCCART	721846.18	4131067.20	50.00	50.00	0.00
DISCCART	721823.23	4131077.11	49.70	49.70	0.00
DISCCART	721800.28	4131087.03	49.56	49.56	0.00
DISCCART	721777.33	4131096.94	49.26	49.26	0.00
DISCCART	721754.38	4131106.85	48.90	48.90	0.00
DISCCART	721731.43	4131116.77	48.67	48.67	0.00
DISCCART	721708.48	4131126.68	48.46	48.46	0.00
DISCCART	721685.52	4131136.60	48.29	48.29	0.00
DISCCART	721662.57	4131146.51	48.30	48.30	0.00
DISCCART	721639.62	4131156.42	48.26	48.26	0.00
DISCCART	721616.67	4131166.34	48.17	48.17	0.00
DISCCART	721593.72	4131176.25	48.32	48.32	0.00
DISCCART	721570.77	4131186.16	48.25	48.25	0.00
DISCCART	721547.82	4131196.08	48.17	48.17	0.00
DISCCART	721524.87	4131205.99	48.27	48.27	0.00
DISCCART	721501.92	4131215.90	48.37	48.37	0.00
DISCCART	721478.97	4131225.82	48.47	48.47	0.00
DISCCART	721456.02	4131235.73	48.57	48.57	0.00
DISCCART	721024.56	4133243.02	49.23	49.23	0.00
DISCCART	720598.35	4133478.99	48.87	48.87	0.00
DISCCART	721792.22	4132066.34	50.60	50.60	1.80
DISCCART	721583.83	4131986.08	50.29	50.29	0.00
DISCCART	721606.81	4131976.23	50.29	50.29	0.00
DISCCART	721629.78	4131966.37	50.29	50.29	0.00
DISCCART	721652.76	4131956.52	50.29	50.29	0.00
DISCCART	721675.73	4131946.66	50.29	50.29	0.00
DISCCART	721698.71	4131936.81	50.29	50.29	0.00
DISCCART	721721.69	4131926.95	50.29	50.29	0.00
DISCCART	721744.66	4131917.10	50.29	50.29	0.00
DISCCART	721767.64	4131907.24	50.29	50.29	0.00
DISCCART	721790.61	4131897.38	50.29	50.29	0.00
DISCCART	721813.59	4131887.53	50.29	50.29	0.00
DISCCART	721836.56	4131877.67	50.29	50.29	0.00
DISCCART	721859.54	4131867.82	50.29	50.29	0.00
DISCCART	721882.51	4131857.96	50.29	50.29	0.00
DISCCART	721905.49	4131848.11	50.29	50.29	0.00
DISCCART	721928.46	4131838.25	50.29	50.29	0.00
DISCCART	721951.44	4131828.40	50.29	50.29	0.00
DISCCART	721974.42	4131818.54	50.29	50.29	0.00
DISCCART	721997.39	4131808.69	50.29	50.29	0.00

DISCCART	722020.37	4131798.83	50.29	50.29	0.00
DISCCART	722043.34	4131788.98	50.29	50.29	0.00
DISCCART	722066.32	4131779.12	50.29	50.29	0.00
DISCCART	722089.29	4131769.27	50.29	50.29	0.00
DISCCART	722112.27	4131759.41	50.29	50.29	0.00
DISCCART	722135.24	4131749.56	50.29	50.29	0.00
DISCCART	722158.22	4131739.70	50.29	50.29	0.00
DISCCART	722181.20	4131729.85	50.29	50.29	0.00
DISCCART	722204.17	4131719.99	50.29	50.29	0.00
DISCCART	722227.15	4131710.13	50.29	50.29	0.00
DISCCART	722250.12	4131700.28	50.29	50.29	0.00
DISCCART	722273.10	4131690.42	50.29	50.29	0.00
DISCCART	722296.07	4131680.57	50.29	50.29	0.00
DISCCART	722319.05	4131670.71	50.29	50.29	0.00
DISCCART	722342.02	4131660.86	50.29	50.29	0.00
DISCCART	722365.00	4131651.00	50.29	50.29	0.00
DISCCART	722387.97	4131641.15	50.29	50.29	0.00
DISCCART	722410.95	4131631.29	50.29	50.29	0.00
DISCCART	722433.93	4131621.44	50.29	50.29	0.00
DISCCART	722456.90	4131611.58	50.32	50.32	0.00
DISCCART	722479.88	4131601.73	50.56	50.56	0.00
DISCCART	722502.85	4131591.87	50.60	50.60	0.00
DISCCART	722525.83	4131582.02	50.60	50.60	0.00
DISCCART	722548.80	4131572.16	50.60	50.60	0.00
DISCCART	722571.78	4131562.31	50.60	50.60	0.00
DISCCART	722594.75	4131552.45	50.60	50.60	0.00
DISCCART	722617.73	4131542.59	50.60	50.60	0.00
DISCCART	722640.71	4131532.74	50.60	50.60	0.00
DISCCART	722663.68	4131522.88	50.60	50.60	0.00
DISCCART	722686.66	4131513.03	50.60	50.60	0.00
DISCCART	722709.63	4131503.17	50.60	50.60	0.00
DISCCART	722732.61	4131493.32	50.60	50.60	0.00
DISCCART	722755.58	4131483.46	50.60	50.60	0.00
DISCCART	722778.56	4131473.61	50.60	50.60	0.00
DISCCART	722801.53	4131463.75	50.60	50.60	0.00
DISCCART	722824.51	4131453.90	50.60	50.60	0.00
DISCCART	722847.48	4131444.04	50.61	50.61	0.00
DISCCART	722870.46	4131434.19	50.60	50.60	0.00
DISCCART	722893.44	4131424.33	50.60	50.60	0.00
DISCCART	722916.41	4131414.48	50.64	50.64	0.00
DISCCART	722939.39	4131404.62	50.65	50.65	0.00
DISCCART	722962.36	4131394.77	50.89	50.89	0.00
DISCCART	722985.34	4131384.91	50.90	50.90	0.00
DISCCART	723008.31	4131375.06	50.90	50.90	0.00
DISCCART	723031.29	4131365.20	50.90	50.90	0.00
DISCCART	723054.26	4131355.34	50.90	50.90	0.00
DISCCART	723077.24	4131345.49	50.90	50.90	0.00
DISCCART	723100.22	4131335.63	50.90	50.90	0.00
DISCCART	723123.19	4131325.78	50.90	50.90	0.00
DISCCART	723146.17	4131315.92	50.90	50.90	0.00

DISCCART	723169.14	4131306.07	50.90	50.90	0.00
DISCCART	723192.12	4131296.21	50.90	50.90	0.00
DISCCART	723267.01	4131369.79	51.01	51.01	0.00
DISCCART	723245.67	4131382.05	50.90	50.90	0.00
DISCCART	723222.69	4131391.91	51.02	51.02	0.00
DISCCART	723199.72	4131401.76	51.20	51.20	0.00
DISCCART	723176.74	4131411.62	51.21	51.21	0.00
DISCCART	723153.76	4131421.48	51.11	51.11	0.00
DISCCART	723130.79	4131431.33	51.17	51.17	0.00
DISCCART	723107.81	4131441.19	51.14	51.14	0.00
DISCCART	723084.84	4131451.04	50.91	50.91	0.00
DISCCART	723061.86	4131460.90	50.90	50.90	0.00
DISCCART	723038.89	4131470.75	50.90	50.90	0.00
DISCCART	723015.91	4131480.61	50.90	50.90	0.00
DISCCART	722992.94	4131490.46	50.90	50.90	0.00
DISCCART	722969.96	4131500.32	50.90	50.90	0.00
DISCCART	722946.99	4131510.17	50.90	50.90	0.00
DISCCART	722924.01	4131520.03	50.90	50.90	0.00
DISCCART	722901.03	4131529.88	50.90	50.90	0.00
DISCCART	722878.06	4131539.74	50.90	50.90	0.00
DISCCART	722855.08	4131549.59	50.90	50.90	0.00
DISCCART	722832.11	4131559.45	50.90	50.90	0.00
DISCCART	722809.13	4131569.30	50.90	50.90	0.00
DISCCART	722786.16	4131579.16	50.90	50.90	0.00
DISCCART	722763.18	4131589.02	50.90	50.90	0.00
DISCCART	722740.21	4131598.87	50.83	50.83	0.00
DISCCART	722717.23	4131608.73	50.78	50.78	0.00
DISCCART	722694.26	4131618.58	50.60	50.60	0.00
DISCCART	722671.28	4131628.44	50.60	50.60	0.00
DISCCART	722648.30	4131638.29	50.60	50.60	0.00
DISCCART	722625.33	4131648.15	50.60	50.60	0.00
DISCCART	722602.35	4131658.00	50.60	50.60	0.00
DISCCART	722579.38	4131667.86	50.60	50.60	0.00
DISCCART	722556.40	4131677.71	50.60	50.60	0.00
DISCCART	722533.43	4131687.57	50.60	50.60	0.00
DISCCART	722510.45	4131697.42	50.56	50.56	0.00
DISCCART	722487.48	4131707.28	50.33	50.33	0.00
DISCCART	722464.50	4131717.13	50.29	50.29	0.00
DISCCART	722441.52	4131726.99	50.29	50.29	0.00
DISCCART	722418.55	4131736.84	50.29	50.29	0.00
DISCCART	722395.57	4131746.70	50.29	50.29	0.00
DISCCART	722372.60	4131756.55	50.29	50.29	0.00
DISCCART	722349.62	4131766.41	50.29	50.29	0.00
DISCCART	722326.65	4131776.27	50.29	50.29	0.00
DISCCART	722303.67	4131786.12	50.29	50.29	0.00
DISCCART	722280.70	4131795.98	50.29	50.29	0.00
DISCCART	722257.72	4131805.83	50.29	50.29	0.00
DISCCART	722234.75	4131815.69	50.29	50.29	0.00
DISCCART	722211.77	4131825.54	50.29	50.29	0.00
DISCCART	722188.79	4131835.40	50.29	50.29	0.00

DISCCART	722165.82	4131845.25	50.29	50.29	0.00
DISCCART	722142.84	4131855.11	50.29	50.29	0.00
DISCCART	722119.87	4131864.96	50.29	50.29	0.00
DISCCART	722096.89	4131874.82	50.29	50.29	0.00
DISCCART	722073.92	4131884.67	50.29	50.29	0.00
DISCCART	722050.94	4131894.53	50.29	50.29	0.00
DISCCART	722027.97	4131904.38	50.29	50.29	0.00
DISCCART	722004.99	4131914.24	50.29	50.29	0.00
DISCCART	721982.01	4131924.09	50.29	50.29	0.00
DISCCART	721959.04	4131933.95	50.29	50.29	0.00
DISCCART	721936.06	4131943.81	50.29	50.29	0.00
DISCCART	721913.09	4131953.66	50.29	50.29	0.00
DISCCART	721890.11	4131963.52	50.29	50.29	0.00
DISCCART	721867.14	4131973.37	50.29	50.29	0.00
DISCCART	721844.16	4131983.23	50.32	50.32	0.00
DISCCART	721821.19	4131993.08	50.48	50.48	0.00
DISCCART	721798.21	4132002.94	50.58	50.58	0.00
DISCCART	721775.24	4132012.79	50.60	50.60	0.00
DISCCART	721752.26	4132022.65	50.60	50.60	0.00
DISCCART	721729.28	4132032.50	50.55	50.55	0.00
DISCCART	721706.31	4132042.36	50.31	50.31	0.00
DISCCART	721683.33	4132052.21	50.29	50.29	0.00
DISCCART	721660.36	4132062.07	50.29	50.29	0.00
DISCCART	721637.38	4132071.92	50.29	50.29	0.00
DISCCART	721841.17	4132144.72	50.60	50.60	0.00
DISCCART	721864.15	4132134.89	50.49	50.49	0.00
DISCCART	721887.14	4132125.06	50.29	50.29	0.00
DISCCART	721910.12	4132115.23	50.29	50.29	0.00
DISCCART	721933.11	4132105.40	50.29	50.29	0.00
DISCCART	721956.09	4132095.56	50.29	50.29	0.00
DISCCART	721979.08	4132085.73	50.29	50.29	0.00
DISCCART	722002.07	4132075.90	50.29	50.29	0.00
DISCCART	722025.05	4132066.07	50.29	50.29	0.00
DISCCART	722048.04	4132056.24	50.29	50.29	0.00
DISCCART	722071.02	4132046.41	50.29	50.29	0.00
DISCCART	722094.01	4132036.57	50.29	50.29	0.00
DISCCART	722116.99	4132026.74	50.29	50.29	0.00
DISCCART	722139.98	4132016.91	50.29	50.29	0.00
DISCCART	722162.97	4132007.08	50.29	50.29	0.00
DISCCART	722185.95	4131997.25	50.29	50.29	0.00
DISCCART	722208.94	4131987.42	50.29	50.29	0.00
DISCCART	722231.92	4131977.58	50.29	50.29	0.00
DISCCART	722254.91	4131967.75	50.29	50.29	0.00
DISCCART	722277.89	4131957.92	50.29	50.29	0.00
DISCCART	722300.88	4131948.09	50.29	50.29	0.00
DISCCART	722323.86	4131938.26	50.29	50.29	0.00
DISCCART	722346.85	4131928.43	50.29	50.29	0.00
DISCCART	722369.84	4131918.60	50.29	50.29	0.00
DISCCART	722392.82	4131908.76	50.29	50.29	0.00
DISCCART	722415.81	4131898.93	50.29	50.29	0.00

DISCCART	722438.79	4131889.10	50.29	50.29	0.00
DISCCART	722461.78	4131879.27	50.29	50.29	0.00
DISCCART	722484.76	4131869.44	50.29	50.29	0.00
DISCCART	722507.75	4131859.61	50.29	50.29	0.00
DISCCART	722530.74	4131849.77	50.46	50.46	0.00
DISCCART	722553.72	4131839.94	50.60	50.60	0.00
DISCCART	722576.71	4131830.11	50.60	50.60	0.00
DISCCART	722599.69	4131820.28	50.60	50.60	0.00
DISCCART	722622.68	4131810.45	50.60	50.60	0.00
DISCCART	722645.66	4131800.62	50.60	50.60	0.00
DISCCART	722668.65	4131790.78	50.60	50.60	0.00
DISCCART	722691.63	4131780.95	50.60	50.60	0.00
DISCCART	722714.62	4131771.12	50.60	50.60	0.00
DISCCART	722737.61	4131761.29	50.74	50.74	0.00
DISCCART	722760.59	4131751.46	50.90	50.90	0.00
DISCCART	722783.58	4131741.63	50.90	50.90	0.00
DISCCART	722806.56	4131731.79	50.90	50.90	0.00
DISCCART	722829.55	4131721.96	50.90	50.90	0.00
DISCCART	722852.53	4131712.13	50.90	50.90	0.00
DISCCART	722875.52	4131702.30	50.90	50.90	0.00
DISCCART	722898.51	4131692.47	50.90	50.90	0.00
DISCCART	722921.49	4131682.64	50.90	50.90	0.00
DISCCART	722944.48	4131672.80	51.00	51.00	0.00
DISCCART	722967.46	4131662.97	51.10	51.10	0.00
DISCCART	722990.45	4131653.14	51.18	51.18	0.00
DISCCART	723013.43	4131643.31	51.19	51.19	0.00
DISCCART	723036.42	4131633.48	51.14	51.14	0.00
DISCCART	723059.41	4131623.65	51.21	51.21	0.00
DISCCART	723082.39	4131613.82	51.21	51.21	0.00
DISCCART	723105.38	4131603.98	51.34	51.34	0.00
DISCCART	723128.36	4131594.15	51.26	51.26	0.00
DISCCART	723151.35	4131584.32	51.28	51.28	0.00
DISCCART	723174.33	4131574.49	51.40	51.40	0.00
DISCCART	723197.32	4131564.66	51.23	51.23	0.00
DISCCART	723220.30	4131554.83	51.04	51.04	0.00
DISCCART	723243.29	4131544.99	50.90	50.90	0.00
DISCCART	723266.28	4131535.16	50.92	50.92	0.00
DISCCART	723289.26	4131525.33	51.16	51.16	0.00
DISCCART	723316.75	4131622.34	51.51	51.51	0.00
DISCCART	723293.77	4131632.17	51.51	51.51	0.00
DISCCART	723270.78	4131642.00	51.28	51.28	0.00
DISCCART	723247.80	4131651.83	51.21	51.21	0.00
DISCCART	723224.81	4131661.66	51.30	51.30	0.00
DISCCART	723201.82	4131671.49	51.51	51.51	0.00
DISCCART	723178.84	4131681.33	51.51	51.51	0.00
DISCCART	723155.85	4131691.16	51.51	51.51	0.00
DISCCART	723132.87	4131700.99	51.50	51.50	0.00
DISCCART	723109.88	4131710.82	51.47	51.47	0.00
DISCCART	723086.90	4131720.65	51.24	51.24	0.00
DISCCART	723063.91	4131730.48	51.21	51.21	0.00

DISCCART	723040.93	4131740.31	51.21	51.21	0.00
DISCCART	723017.94	4131750.15	51.21	51.21	0.00
DISCCART	722994.95	4131759.98	51.21	51.21	0.00
DISCCART	722971.97	4131769.81	51.21	51.21	0.00
DISCCART	722948.98	4131779.64	51.21	51.21	0.00
DISCCART	722926.00	4131789.47	51.21	51.21	0.00
DISCCART	722903.01	4131799.30	51.21	51.21	0.00
DISCCART	722880.03	4131809.14	51.21	51.21	0.00
DISCCART	722857.04	4131818.97	51.21	51.21	0.00
DISCCART	722834.05	4131828.80	51.11	51.11	0.00
DISCCART	722811.07	4131838.63	50.90	50.90	0.00
DISCCART	722788.08	4131848.46	50.90	50.90	0.00
DISCCART	722765.10	4131858.29	50.90	50.90	0.00
DISCCART	722742.11	4131868.13	50.90	50.90	0.00
DISCCART	722719.13	4131877.96	50.85	50.85	0.00
DISCCART	722696.14	4131887.79	50.65	50.65	0.00
DISCCART	722673.16	4131897.62	50.64	50.64	0.00
DISCCART	722650.17	4131907.45	50.60	50.60	0.00
DISCCART	722627.18	4131917.28	50.60	50.60	0.00
DISCCART	722604.20	4131927.12	50.60	50.60	0.00
DISCCART	722581.21	4131936.95	50.60	50.60	0.00
DISCCART	722558.23	4131946.78	50.60	50.60	0.00
DISCCART	722535.24	4131956.61	50.51	50.51	0.00
DISCCART	722512.26	4131966.44	50.29	50.29	0.00
DISCCART	722489.27	4131976.27	50.29	50.29	0.00
DISCCART	722466.28	4131986.11	50.29	50.29	0.00
DISCCART	722443.30	4131995.94	50.29	50.29	0.00
DISCCART	722420.31	4132005.77	50.29	50.29	0.00
DISCCART	722397.33	4132015.60	50.29	50.29	0.00
DISCCART	722374.34	4132025.43	50.29	50.29	0.00
DISCCART	722351.36	4132035.26	50.29	50.29	0.00
DISCCART	722328.37	4132045.09	50.29	50.29	0.00
DISCCART	722305.38	4132054.93	50.29	50.29	0.00
DISCCART	722282.40	4132064.76	50.29	50.29	0.00
DISCCART	722259.41	4132074.59	50.29	50.29	0.00
DISCCART	722236.43	4132084.42	50.29	50.29	0.00
DISCCART	722213.44	4132094.25	50.29	50.29	0.00
DISCCART	722190.46	4132104.08	50.29	50.29	0.00
DISCCART	722167.47	4132113.92	50.29	50.29	0.00
DISCCART	722144.49	4132123.75	50.29	50.29	0.00
DISCCART	722121.50	4132133.58	50.29	50.29	0.00
DISCCART	722098.51	4132143.41	50.29	50.29	0.00
DISCCART	722075.53	4132153.24	50.29	50.29	0.00
DISCCART	722052.54	4132163.07	50.29	50.29	0.00
DISCCART	722029.56	4132172.91	50.29	50.29	0.00
DISCCART	722006.57	4132182.74	50.29	50.29	0.00
DISCCART	721983.59	4132192.57	50.29	50.29	0.00
DISCCART	721960.60	4132202.40	50.37	50.37	0.00
DISCCART	721937.61	4132212.23	50.57	50.57	0.00
DISCCART	721914.63	4132222.06	50.60	50.60	0.00

DISCCART	721891.64	4132231.90	50.60	50.60	0.00
DISCCART	721853.38	4132064.29	50.60	50.60	0.00
DISCCART	721876.36	4132054.46	50.37	50.37	0.00
DISCCART	721899.34	4132044.62	50.29	50.29	0.00
DISCCART	721922.33	4132034.78	50.29	50.29	0.00
DISCCART	721945.31	4132024.94	50.29	50.29	0.00
DISCCART	721968.29	4132015.11	50.29	50.29	0.00
DISCCART	721991.28	4132005.27	50.29	50.29	0.00
DISCCART	722014.26	4131995.43	50.29	50.29	0.00
DISCCART	722037.24	4131985.59	50.29	50.29	0.00
DISCCART	722060.23	4131975.75	50.29	50.29	0.00
DISCCART	722083.21	4131965.92	50.29	50.29	0.00
DISCCART	722106.19	4131956.08	50.29	50.29	0.00
DISCCART	722129.17	4131946.24	50.29	50.29	0.00
DISCCART	722152.16	4131936.40	50.29	50.29	0.00
DISCCART	722175.14	4131926.57	50.29	50.29	0.00
DISCCART	722198.12	4131916.73	50.29	50.29	0.00
DISCCART	722221.11	4131906.89	50.29	50.29	0.00
DISCCART	722244.09	4131897.05	50.29	50.29	0.00
DISCCART	722267.07	4131887.22	50.29	50.29	0.00
DISCCART	722290.06	4131877.38	50.29	50.29	0.00
DISCCART	722313.04	4131867.54	50.29	50.29	0.00
DISCCART	722336.02	4131857.70	50.29	50.29	0.00
DISCCART	722359.01	4131847.86	50.29	50.29	0.00
DISCCART	722381.99	4131838.03	50.29	50.29	0.00
DISCCART	722404.97	4131828.19	50.29	50.29	0.00
DISCCART	722427.95	4131818.35	50.29	50.29	0.00
DISCCART	722450.94	4131808.51	50.29	50.29	0.00
DISCCART	722473.92	4131798.68	50.29	50.29	0.00
DISCCART	722496.90	4131788.84	50.40	50.40	0.00
DISCCART	722519.89	4131779.00	50.47	50.47	0.00
DISCCART	722542.87	4131769.16	50.59	50.59	0.00
DISCCART	722565.85	4131759.32	50.60	50.60	0.00
DISCCART	722588.84	4131749.49	50.60	50.60	0.00
DISCCART	722611.82	4131739.65	50.60	50.60	0.00
DISCCART	722634.80	4131729.81	50.60	50.60	0.00
DISCCART	722657.78	4131719.97	50.60	50.60	0.00
DISCCART	722680.77	4131710.14	50.60	50.60	0.00
DISCCART	722703.75	4131700.30	50.60	50.60	0.00
DISCCART	722726.73	4131690.46	50.62	50.62	0.00
DISCCART	722749.72	4131680.62	50.86	50.86	0.00
DISCCART	722772.70	4131670.78	50.90	50.90	0.00
DISCCART	722795.68	4131660.95	50.90	50.90	0.00
DISCCART	722818.67	4131651.11	50.90	50.90	0.00
DISCCART	722841.65	4131641.27	50.90	50.90	0.00
DISCCART	722864.63	4131631.43	50.90	50.90	0.00
DISCCART	722887.61	4131621.60	50.90	50.90	0.00
DISCCART	722910.60	4131611.76	50.90	50.90	0.00
DISCCART	722933.58	4131601.92	50.90	50.90	0.00
DISCCART	722956.56	4131592.08	50.90	50.90	0.00

DISCCART	722979.55	4131582.24	50.90	50.90	0.00
DISCCART	723002.53	4131572.41	50.90	50.90	0.00
DISCCART	723025.51	4131562.57	50.90	50.90	0.00
DISCCART	723048.50	4131552.73	50.90	50.90	0.00
DISCCART	723071.48	4131542.89	50.90	50.90	0.00
DISCCART	723094.46	4131533.06	51.01	51.01	0.00
DISCCART	723117.44	4131523.22	51.21	51.21	0.00
DISCCART	723140.43	4131513.38	51.21	51.21	0.00
DISCCART	723163.41	4131503.54	51.21	51.21	0.00
DISCCART	723186.39	4131493.71	51.21	51.21	0.00
DISCCART	723209.38	4131483.87	51.15	51.15	0.00
DISCCART	723232.36	4131474.03	50.92	50.92	0.00
DISCCART	723255.34	4131464.19	50.90	50.90	0.00
DISCCART	723278.33	4131454.35	51.05	51.05	0.00
DISCCART	723260.99	4131463.95	50.90	50.90	0.00
DISCCART	723238.01	4131473.79	50.90	50.90	0.00
DISCCART	723215.03	4131483.62	51.09	51.09	0.00
DISCCART	723192.04	4131493.46	51.21	51.21	0.00
DISCCART	723169.06	4131503.30	51.21	51.21	0.00
DISCCART	723146.08	4131513.14	51.21	51.21	0.00
DISCCART	723123.10	4131522.98	51.21	51.21	0.00
DISCCART	723100.11	4131532.81	51.07	51.07	0.00
DISCCART	723077.13	4131542.65	50.90	50.90	0.00
DISCCART	723054.15	4131552.49	50.90	50.90	0.00
DISCCART	723031.16	4131562.33	50.90	50.90	0.00
DISCCART	723008.18	4131572.16	50.90	50.90	0.00
DISCCART	722985.20	4131582.00	50.90	50.90	0.00
DISCCART	722962.21	4131591.84	50.90	50.90	0.00
DISCCART	722939.23	4131601.68	50.90	50.90	0.00
DISCCART	722916.25	4131611.51	50.90	50.90	0.00
DISCCART	722893.27	4131621.35	50.90	50.90	0.00
DISCCART	722870.28	4131631.19	50.90	50.90	0.00
DISCCART	722847.30	4131641.03	50.90	50.90	0.00
DISCCART	722824.32	4131650.87	50.90	50.90	0.00
DISCCART	722801.33	4131660.70	50.90	50.90	0.00
DISCCART	722778.35	4131670.54	50.90	50.90	0.00
DISCCART	722755.37	4131680.38	50.90	50.90	0.00
DISCCART	722732.38	4131690.22	50.68	50.68	0.00
DISCCART	722709.40	4131700.05	50.60	50.60	0.00
DISCCART	722686.42	4131709.89	50.60	50.60	0.00
DISCCART	722663.43	4131719.73	50.60	50.60	0.00
DISCCART	722640.45	4131729.57	50.60	50.60	0.00
DISCCART	722617.47	4131739.41	50.60	50.60	0.00
DISCCART	722594.49	4131749.24	50.60	50.60	0.00
DISCCART	722571.50	4131759.08	50.60	50.60	0.00
DISCCART	722548.52	4131768.92	50.60	50.60	0.00
DISCCART	722525.54	4131778.76	50.50	50.50	0.00
DISCCART	722502.55	4131788.59	50.44	50.44	0.00
DISCCART	722479.57	4131798.43	50.29	50.29	0.00
DISCCART	722456.59	4131808.27	50.29	50.29	0.00

DISCCART	722433.60	4131818.11	50.29	50.29	0.00
DISCCART	722410.62	4131827.95	50.29	50.29	0.00
DISCCART	722387.64	4131837.78	50.29	50.29	0.00
DISCCART	722364.66	4131847.62	50.29	50.29	0.00
DISCCART	722341.67	4131857.46	50.29	50.29	0.00
DISCCART	722318.69	4131867.30	50.29	50.29	0.00
DISCCART	722295.71	4131877.13	50.29	50.29	0.00
DISCCART	722272.72	4131886.97	50.29	50.29	0.00
DISCCART	722249.74	4131896.81	50.29	50.29	0.00
DISCCART	722226.76	4131906.65	50.29	50.29	0.00
DISCCART	722203.77	4131916.49	50.29	50.29	0.00
DISCCART	722180.79	4131926.32	50.29	50.29	0.00
DISCCART	722157.81	4131936.16	50.29	50.29	0.00
DISCCART	722134.83	4131946.00	50.29	50.29	0.00
DISCCART	722111.84	4131955.84	50.29	50.29	0.00
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DISCCART	722065.88	4131975.51	50.29	50.29	0.00
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DISCCART	722019.91	4131995.19	50.29	50.29	0.00
DISCCART	721996.93	4132005.02	50.29	50.29	0.00
DISCCART	721973.94	4132014.86	50.29	50.29	0.00
DISCCART	721950.96	4132024.70	50.29	50.29	0.00
DISCCART	721927.98	4132034.54	50.29	50.29	0.00
DISCCART	721905.00	4132044.38	50.29	50.29	0.00
DISCCART	721882.01	4132054.21	50.31	50.31	0.00
DISCCART	721859.03	4132064.05	50.55	50.55	0.00
DISCCART	722093.85	4131295.32	52.01	52.01	0.00
DISCCART	722116.79	4131285.39	52.11	52.11	0.00
DISCCART	722139.74	4131275.46	52.06	52.06	0.00
DISCCART	722162.68	4131265.53	51.92	51.92	0.00
DISCCART	722185.62	4131255.59	51.81	51.81	0.00
DISCCART	722208.57	4131245.66	51.89	51.89	0.00
DISCCART	722231.51	4131235.73	52.13	52.13	0.00
DISCCART	722254.45	4131225.80	52.41	52.41	0.00
DISCCART	722277.39	4131215.87	52.49	52.49	0.00
DISCCART	722300.34	4131205.94	52.52	52.52	0.00
DISCCART	722323.28	4131196.00	52.52	52.52	0.00
DISCCART	722346.22	4131186.07	52.48	52.48	0.00
DISCCART	722369.16	4131176.14	52.47	52.47	0.00
DISCCART	722392.11	4131166.21	52.43	52.43	0.00
DISCCART	722415.05	4131156.28	52.54	52.54	0.00
DISCCART	722437.99	4131146.35	52.56	52.56	0.00
DISCCART	722460.93	4131136.42	52.63	52.63	0.00
DISCCART	722483.88	4131126.48	52.51	52.51	0.00
DISCCART	722506.82	4131116.55	52.52	52.52	0.00
DISCCART	722529.76	4131106.62	52.54	52.54	0.00
DISCCART	722552.71	4131096.69	52.50	52.50	0.00
DISCCART	722575.65	4131086.76	52.47	52.47	0.00
DISCCART	722598.59	4131076.83	52.44	52.44	0.00
DISCCART	722621.53	4131066.89	52.41	52.41	0.00

DISCCART	722644.48	4131056.96	52.49	52.49	0.00
DISCCART	722667.42	4131047.03	52.65	52.65	0.00
DISCCART	722690.36	4131037.10	52.61	52.61	0.00
DISCCART	722713.30	4131027.17	52.59	52.59	0.00
DISCCART	722736.25	4131017.24	52.56	52.56	0.00
DISCCART	722759.19	4131007.31	52.53	52.53	0.00
DISCCART	722771.12	4131056.62	51.47	51.47	0.00
DISCCART	722748.18	4131066.55	51.44	51.44	0.00
DISCCART	722725.24	4131076.49	51.48	51.48	0.00
DISCCART	722702.30	4131086.42	51.53	51.53	0.00
DISCCART	722679.35	4131096.35	51.53	51.53	0.00
DISCCART	722656.41	4131106.28	51.57	51.57	0.00
DISCCART	722633.47	4131116.21	51.59	51.59	0.00
DISCCART	722610.53	4131126.14	51.55	51.55	0.00
DISCCART	722587.58	4131136.07	51.49	51.49	0.00
DISCCART	722564.64	4131146.01	51.49	51.49	0.00
DISCCART	722541.70	4131155.94	51.61	51.61	0.00
DISCCART	722518.76	4131165.87	51.50	51.50	0.00
DISCCART	722495.81	4131175.80	51.52	51.52	0.00
DISCCART	722472.87	4131185.73	51.51	51.51	0.00
DISCCART	722449.93	4131195.66	51.54	51.54	0.00
DISCCART	722426.99	4131205.60	51.58	51.58	0.00
DISCCART	722404.04	4131215.53	51.60	51.60	0.00
DISCCART	722381.10	4131225.46	51.63	51.63	0.00
DISCCART	722358.16	4131235.39	51.66	51.66	0.00
DISCCART	722335.21	4131245.32	51.69	51.69	0.00
DISCCART	722312.27	4131255.25	51.51	51.51	0.00
DISCCART	722289.33	4131265.18	51.56	51.56	0.00
DISCCART	722266.39	4131275.12	51.56	51.56	0.00
DISCCART	722243.44	4131285.05	51.21	51.21	0.00
DISCCART	722220.50	4131294.98	51.44	51.44	0.00
DISCCART	722197.56	4131304.91	51.40	51.40	0.00
DISCCART	722174.62	4131314.84	51.40	51.40	0.00
DISCCART	722151.67	4131324.77	51.60	51.60	0.00
DISCCART	722128.73	4131334.71	51.33	51.33	0.00
DISCCART	722148.89	4131034.56	52.27	52.27	0.00
DISCCART	722171.91	4131024.81	52.49	52.49	0.00
DISCCART	722194.93	4131015.07	52.54	52.54	0.00
DISCCART	722217.96	4131005.32	52.65	52.65	0.00
DISCCART	722240.98	4130995.57	52.71	52.71	0.00
DISCCART	722264.00	4130985.83	52.74	52.74	0.00
DISCCART	722287.02	4130976.08	52.77	52.77	0.00
DISCCART	722310.04	4130966.33	52.85	52.85	0.00
DISCCART	722333.06	4130956.59	52.75	52.75	0.00
DISCCART	722356.09	4130946.84	52.89	52.89	0.00
DISCCART	722379.11	4130937.09	52.85	52.85	0.00
DISCCART	722402.13	4130927.35	52.75	52.75	0.00
DISCCART	722417.99	4130974.93	53.24	53.24	0.00
DISCCART	722394.97	4130984.68	53.34	53.34	0.00
DISCCART	722371.95	4130994.42	53.19	53.19	0.00

DISCCART	722348.92	4131004.17	53.23	53.23	0.00
DISCCART	722325.90	4131013.92	53.25	53.25	0.00
DISCCART	722302.88	4131023.66	53.12	53.12	0.00
DISCCART	722279.86	4131033.41	53.22	53.22	0.00
DISCCART	722256.84	4131043.16	53.15	53.15	0.00
DISCCART	722233.82	4131052.90	53.22	53.22	0.00
DISCCART	722210.79	4131062.65	53.18	53.18	0.00
DISCCART	722187.77	4131072.39	53.05	53.05	0.00
DISCCART	721461.30	4131276.70	48.97	48.97	0.00
DISCCART	721484.22	4131266.71	48.89	48.89	0.00
DISCCART	721507.14	4131256.72	48.80	48.80	0.00
DISCCART	721530.06	4131246.74	48.73	48.73	0.00
DISCCART	721552.97	4131236.75	48.70	48.70	0.00
DISCCART	721575.89	4131226.76	48.74	48.74	0.00
DISCCART	721598.81	4131216.78	48.86	48.86	0.00
DISCCART	721621.73	4131206.79	48.90	48.90	0.00
DISCCART	721644.65	4131196.80	48.84	48.84	0.00
DISCCART	721667.57	4131186.82	49.02	49.02	0.00
DISCCART	721690.49	4131176.83	48.99	48.99	0.00
DISCCART	721713.41	4131166.84	49.11	49.11	0.00
DISCCART	721736.32	4131156.86	49.56	49.56	0.00
DISCCART	721759.24	4131146.87	49.67	49.67	0.00
DISCCART	721782.16	4131136.88	49.81	49.81	0.00
DISCCART	721805.08	4131126.90	50.10	50.10	0.00
DISCCART	721828.00	4131116.91	50.29	50.29	0.00
DISCCART	721850.92	4131106.92	50.32	50.32	0.00
DISCCART	721873.84	4131096.94	50.74	50.74	0.00
DISCCART	721896.76	4131086.95	50.76	50.76	0.00
DISCCART	721903.62	4131127.59	51.54	51.54	0.00
DISCCART	721880.70	4131137.58	51.53	51.53	0.00
DISCCART	721857.78	4131147.57	51.50	51.50	0.00
DISCCART	721834.87	4131157.55	51.42	51.42	0.00
DISCCART	721811.95	4131167.54	51.33	51.33	0.00
DISCCART	721789.03	4131177.53	51.19	51.19	0.00
DISCCART	721766.11	4131187.51	51.02	51.02	0.00
DISCCART	721743.19	4131197.50	50.66	50.66	0.00
DISCCART	721720.27	4131207.48	50.52	50.52	0.00
DISCCART	721697.35	4131217.47	50.48	50.48	0.00
DISCCART	721674.43	4131227.46	50.38	50.38	0.00
DISCCART	721651.52	4131237.44	50.22	50.22	0.00
DISCCART	721628.60	4131247.43	50.21	50.21	0.00
DISCCART	721605.68	4131257.42	50.19	50.19	0.00
DISCCART	721582.76	4131267.40	49.79	49.79	0.00
DISCCART	721559.84	4131277.39	49.60	49.60	0.00
DISCCART	721536.92	4131287.38	49.56	49.56	0.00
DISCCART	721514.00	4131297.36	49.76	49.76	0.00
DISCCART	721491.08	4131307.35	50.06	50.06	0.00
DISCCART	721412.42	4131178.31	48.42	48.42	0.00
DISCCART	721435.37	4131168.40	48.19	48.19	0.00
DISCCART	721458.32	4131158.48	48.16	48.16	0.00

DISCCART	721481.27	4131148.57	48.16	48.16	0.00
DISCCART	721504.22	4131138.66	48.26	48.26	0.00
DISCCART	721527.17	4131128.74	48.46	48.46	0.00
DISCCART	721550.13	4131118.83	48.46	48.46	0.00
DISCCART	721573.08	4131108.92	48.46	48.46	0.00
DISCCART	721596.03	4131099.00	48.46	48.46	0.00
DISCCART	721618.98	4131089.09	48.46	48.46	0.00
DISCCART	721641.93	4131079.18	48.46	48.46	0.00
DISCCART	721664.88	4131069.26	48.45	48.45	0.00
DISCCART	721687.83	4131059.35	48.32	48.32	0.00
DISCCART	721710.78	4131049.44	48.17	48.17	0.00
DISCCART	721733.73	4131039.52	48.16	48.16	0.00
DISCCART	721756.68	4131029.61	48.38	48.38	0.00
DISCCART	721779.63	4131019.70	48.55	48.55	0.00
DISCCART	721802.58	4131009.78	48.86	48.86	0.00
DISCCART	721825.53	4130999.87	49.09	49.09	0.00
DISCCART	721848.48	4130989.95	49.32	49.32	0.00
DISCCART	721871.43	4130980.04	49.36	49.36	0.00
DISCCART	721894.38	4130970.13	49.54	49.54	0.00
DISCCART	721917.33	4130960.21	49.91	49.91	0.00
DISCCART	721940.28	4130950.30	49.71	49.71	0.00
DISCCART	721963.23	4130940.39	49.88	49.88	0.00
DISCCART	721986.18	4130930.47	49.91	49.91	0.00
DISCCART	722009.13	4130920.56	49.82	49.82	0.00
DISCCART	722032.08	4130910.65	50.26	50.26	0.00
DISCCART	722055.03	4130900.73	50.33	50.33	0.00
DISCCART	722077.99	4130890.82	50.58	50.58	0.00
DISCCART	722100.94	4130880.91	50.90	50.90	0.00
DISCCART	722123.89	4130870.99	50.90	50.90	0.00
DISCCART	722146.84	4130861.08	51.09	51.09	0.00
DISCCART	722169.79	4130851.17	51.23	51.23	0.00
DISCCART	722192.74	4130841.25	51.27	51.27	0.00
DISCCART	722215.69	4130831.34	51.19	51.19	0.00
DISCCART	722238.64	4130821.43	51.32	51.32	0.00
DISCCART	722261.59	4130811.51	51.45	51.45	0.00
DISCCART	722284.54	4130801.60	51.48	51.48	0.00
DISCCART	722307.49	4130791.68	51.40	51.40	0.00
DISCCART	722330.44	4130781.77	51.34	51.34	0.00
DISCCART	722374.04	4130839.19	52.16	52.16	0.00
DISCCART	722351.09	4130849.10	52.26	52.26	0.00
DISCCART	722328.14	4130859.02	52.31	52.31	0.00
DISCCART	722305.19	4130868.93	52.17	52.17	0.00
DISCCART	722282.24	4130878.84	52.04	52.04	0.00
DISCCART	722259.29	4130888.76	51.91	51.91	0.00
DISCCART	722236.34	4130898.67	51.84	51.84	0.00
DISCCART	722213.38	4130908.58	51.82	51.82	0.00
DISCCART	722190.43	4130918.50	51.82	51.82	0.00
DISCCART	722167.48	4130928.41	51.68	51.68	0.00
DISCCART	722144.53	4130938.33	51.55	51.55	0.00
DISCCART	722121.58	4130948.24	51.42	51.42	0.00

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   DISCCART    722098.63   4130958.15   51.25   51.25    0.00
   DISCCART    722075.68   4130968.07   50.83   50.83    0.00
   DISCCART    722052.73   4130977.98   50.57   50.57    0.00
   DISCCART    722029.78   4130987.89   50.55   50.55    0.00
   DISCCART    722006.83   4130997.81   50.32   50.32    0.00
   DISCCART    721983.88   4131007.72   50.29   50.29    0.00
   DISCCART    721960.93   4131017.63   50.31   50.31    0.00
   DISCCART    721937.98   4131027.55   50.22   50.22    0.00
   DISCCART    721915.03   4131037.46   50.15   50.15    0.00
   DISCCART    721892.08   4131047.37   50.31   50.31    0.00
   DISCCART    721869.13   4131057.29   50.11   50.11    0.00
   DISCCART    721846.18   4131067.20   50.00   50.00    0.00
   DISCCART    721823.23   4131077.11   49.70   49.70    0.00
   DISCCART    721800.28   4131087.03   49.56   49.56    0.00
   DISCCART    721777.33   4131096.94   49.26   49.26    0.00
   DISCCART    721754.38   4131106.85   48.90   48.90    0.00
   DISCCART    721731.43   4131116.77   48.67   48.67    0.00
   DISCCART    721708.48   4131126.68   48.46   48.46    0.00
   DISCCART    721685.52   4131136.60   48.29   48.29    0.00
   DISCCART    721662.57   4131146.51   48.30   48.30    0.00
   DISCCART    721639.62   4131156.42   48.26   48.26    0.00
   DISCCART    721616.67   4131166.34   48.17   48.17    0.00
   DISCCART    721593.72   4131176.25   48.32   48.32    0.00
   DISCCART    721570.77   4131186.16   48.25   48.25    0.00
   DISCCART    721547.82   4131196.08   48.17   48.17    0.00
   DISCCART    721524.87   4131205.99   48.27   48.27    0.00
   DISCCART    721501.92   4131215.90   48.37   48.37    0.00
   DISCCART    721478.97   4131225.82   48.47   48.47    0.00
   DISCCART    721456.02   4131235.73   48.57   48.57    0.00
   DISCCART    721024.56   4133243.02   49.23   49.23    0.00
   DISCCART    720598.35   4133478.99   48.87   48.87    0.00
RE FINISHED
**
**************************************
** AERMOD METEOROLOGY PATHWAY
**************************************
**
**
ME STARTING
   SURFFILE "..\MERECED MET\MERCED_18-22.SFC"
   PROFFILE "..\MERECED MET\MERCED_18-22.PFL"
   SURFDATA 23257 2018
   UAIRDATA 23230 2018 OAKLAND/WSO_AP
   PROFBASE 46.0 METERS
ME FINISHED
**
**************************************
** AERMOD OUTPUT PATHWAY
**************************************
**
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**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   PERIOD ALL "MITC CONSTRUCT.AD\PE00GALL.PLT" 31
   PLOTFILE   PERIOD MAIN "MITC CONSTRUCT.AD\PE00G001.PLT" 32
   PLOTFILE   PERIOD SOLAR "MITC CONSTRUCT.AD\PE00G002.PLT" 33
   SUMMFILE "MITC CONSTRUCT.SUM"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320      88        APARM: Input Parameter May Be Out-of-Range for Parameter
       QS
 ME W186    4093       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    4093       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                            ***        10:17:53

                                      PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
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```
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses URBAN Dispersion Algorithm for the SBL for    21 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =     86333.0 ;  Urban Roughness Length =  1.000 m
      * Urban Roughness Length of 1.0 Meter Used.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Accepts FLAGPOLE Receptor . Heights.
      * The User Specified a Pollutant Type of: DPM

 **Model Calculates PERIOD Averages Only

 **This Run Includes:     21 Source(s);       3 Source Group(s); and    4636
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:      0 VOLUME source(s)
                 and:     21 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  21112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
```

b for Both Calm
and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 46.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.3 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: MITC CONSTRUCT.ERR

**File for Summary of Results: MITC CONSTRUCT.SUM

*** AREA SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	COORD (SW CORNER) X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	X-DIM OF AREA (METERS)	Y-DIM OF AREA (METERS)	ORIENT. (DEG.)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
AREA1	0	0.00000E+00	722155.1	4131370.7	50.7	4.10	250.00	54.00	23.18	3.81	YES	HRDOW7	NO

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY	AIRCRAFT
PAREA1	0	0.15000E-07	719851.1	4132574.5	48.8	4.10	14	3.81	YES	HRDOW7	NO
PAREA2	0	0.20800E-06	722427.3	4131309.6	50.3	4.10	4	3.81	YES	HRDOW7	NO
PAREA3	0	0.15000E-07	720652.9	4132426.8	48.8	4.10	8	3.81	YES	HRDOW7	NO
PAREA4	0	0.73100E-07	722379.4	4131366.8	50.3	4.10	4	3.81	YES	HRDOW7	NO
PAREA5	0	0.73100E-07	721755.8	4131633.7	50.3	4.10	14	3.81	YES	HRDOW7	NO
PAREA6	0	0.73100E-07	721115.0	4131958.4	48.8	4.10	17	3.81	YES	HRDOW7	NO
PAREA7	0	0.10800E-06	721272.4	4131849.2	48.8	4.10	27	3.81	YES	HRDOW7	NO
PAREA8	0	0.10800E-06	720898.6	4133172.9	49.0	4.10	9	3.81	YES	HRDOW7	NO
PAREA9	0	0.10800E-06	719942.0	4133058.9	48.2	4.10	45	3.81	YES	HRDOW7	NO
PAREA10	0	0.73100E-07	721789.2	4132759.8	51.7	4.10	30	3.81	YES	HRDOW7	NO
PAREA11	0	0.35800E-07	720303.4	4133110.9	48.2	4.10	24	3.81	YES	HRDOW7	NO
PAREA13	0	0.35800E-07	720280.9	4133128.9	48.3	4.10	29	3.81	YES	HRDOW7	NO
PAREA12	0	0.35800E-07	720988.2	4133091.4	48.9	4.10	25	3.81	YES	HRDOW7	NO
PAREA14	0	0.37100E-10	719808.8	4132999.3	47.8	4.10	12	3.81	YES	HRDOW7	NO
PAREA15	0	0.37100E-06	719602.5	4132850.6	47.8	4.10	11	3.81	YES	HRDOW7	NO
PAREA16	0	0.37100E-10	720197.4	4132684.0	48.3	4.10	6	3.81	YES	HRDOW7	NO
PAREA17	0	0.37100E-10	720176.0	4132532.6	48.8	4.10	17	3.81	YES	HRDOW7	NO
PAREA18	0	0.37100E-10	720662.3	4132352.1	48.8	4.10	5	3.81	YES	HRDOW7	NO
PAREA19	0	0.37100E-10	720735.7	4132336.8	48.8	4.10	6	3.81	YES	HRDOW7	NO

```
 PAREA20          0   0.23900E-06  720524.6 4132469.9    48.9     4.10       5
   3.81     YES   HRDOW7           NO
↑ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  MAIN       PAREA1      , AREA1       , PAREA2      , PAREA3      , PAREA4      ,
PAREA5      , PAREA6      , PAREA7      ,

             PAREA8      , PAREA9      , PAREA10     , PAREA11     , PAREA13     ,
PAREA12     ,

  SOLAR      PAREA14     , PAREA15     , PAREA16     , PAREA17     , PAREA18     ,
PAREA19     , PAREA20     ,

  ALL        PAREA1      , AREA1       , PAREA2      , PAREA3      , PAREA4      ,
PAREA5      , PAREA6      , PAREA7      ,

             PAREA8      , PAREA9      , PAREA10     , PAREA11     , PAREA13     ,
PAREA12     , PAREA14     , PAREA15     ,

             PAREA16     , PAREA17     , PAREA18     , PAREA19     , PAREA20     ,
↑ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                 SOURCE IDs
  --------   ---------                                 ----------
```

```
               86333.   PAREA1      , AREA1       , PAREA2      , PAREA3      ,
PAREA4      , PAREA5      , PAREA6      ,
 PAREA7      ,

              PAREA8      , PAREA9      , PAREA10     , PAREA11     , PAREA13     ,
PAREA12     , PAREA14     , PAREA15     ,

              PAREA16     , PAREA17     , PAREA18     , PAREA19     , PAREA20     ,
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA1       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                    PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = AREA1        ; SOURCE TYPE = AREA     :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
```

```
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA2       ; SOURCE TYPE = AREAPOLY :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA3 ; SOURCE TYPE = AREAPOLY :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA4       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA5   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = PAREA6   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                    DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA7       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA8       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA9       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA10   ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .1000E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA11      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
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14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA13      ; SOURCE TYPE = AREAPOLY :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA12 ; SOURCE TYPE = AREAPOLY :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA14      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA15      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = MONDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = PAREA16   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .1000E+01
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA17      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                    PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA18      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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```
                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

 SOURCE ID = PAREA19      ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA20 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .1000E+01
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                         *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                      *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                           *** X-COORDINATES OF GRID ***
                                                    (METERS)

       721117.1,  721142.1,  721167.1,  721192.1,  721217.1,  721242.1,  721267.1,
721292.1,  721317.1,  721342.1,
       721367.1,  721392.1,  721417.1,  721442.1,  721467.1,  721492.1,  721517.1,
721542.1,  721567.1,  721592.1,
       721617.1,  721642.1,  721667.1,  721692.1,  721717.1,  721742.1,  721767.1,
721792.1,  721817.1,  721842.1,


                                           *** Y-COORDINATES OF GRID ***
                                                    (METERS)
```

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)														
	721117.14	721142.14	721167.14	721192.14	721217.14	721242.14	721267.14	721292.14	721317.14						
4132640.52	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.20	49.40			
4132615.52	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.20			
4132590.52	49.10	49.10	49.10	48.90	48.90	49.00	49.10	49.10	49.10						
4132565.52	49.10	49.10	49.00	48.80	48.80	49.00	49.10	49.10	49.10						
4132540.52	49.00	49.10	49.00	48.80	48.80	49.00	49.10	49.00	49.00						
4132515.52	48.90	49.00	48.80	48.80	48.80	49.00	48.90	48.80	48.80						
4132490.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132465.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132440.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132415.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132390.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132365.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						
4132340.52	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80						

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  4132315.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132290.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132265.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132240.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132215.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132190.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132165.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132140.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132115.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132090.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4132065.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***         01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                    X-COORD (METERS)
    (METERS) |     721342.14    721367.14    721392.14    721417.14    721442.14
721467.14    721492.14    721517.14    721542.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |         49.40        49.40        49.60        49.70        49.70
    50.00        50.00        50.00        50.20
  4132615.52 |         49.20        49.30        49.60        49.70        49.70
    49.80        50.00        50.00        50.20
  4132590.52 |         49.10        49.20        49.40        49.50        49.50
    49.70        50.00        50.00        50.20
  4132565.52 |         49.10        49.10        49.30        49.40        49.40
    49.70        50.00        50.10        50.30
  4132540.52 |         49.00        49.10        49.20        49.40        49.40
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   49.70        50.00        50.20        50.40
 4132515.52 |        48.80        49.00        49.10        49.20        49.40
   49.70        50.00        50.00        50.20
 4132490.52 |        48.80        49.00        49.10        49.20        49.40
   49.50        50.00        50.00        50.20
 4132465.52 |        48.80        49.00        49.10        49.20        49.40
   49.60        49.80        49.90        50.20
 4132440.52 |        48.80        48.90        49.00        49.10        49.20
   49.60        49.70        49.90        50.20
 4132415.52 |        48.80        48.80        49.00        49.10        49.10
   49.40        49.70        49.90        50.20
 4132390.52 |        48.80        48.80        49.00        49.10        49.10
   49.40        49.70        49.90        50.30
 4132365.52 |        48.80        48.80        49.00        49.10        49.10
   49.40        49.70        49.90        50.00
 4132340.52 |        48.80        48.80        48.80        48.90        49.10
   49.40        49.70        49.90        50.00
 4132315.52 |        48.80        48.80        48.80        48.90        49.10
   49.40        49.70        49.90        50.00
 4132290.52 |        48.80        48.80        48.80        48.90        49.10
   49.40        49.50        49.80        49.90
 4132265.52 |        48.80        48.80        48.80        48.90        49.00
   49.30        49.40        49.60        49.90
 4132240.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.40        49.60        49.90
 4132215.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.40        49.60        49.90
 4132190.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.40        49.60        49.90
 4132165.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.40        49.60        49.90
 4132140.52 |        48.80        48.80        48.80        48.80        48.80
   49.00        49.40        49.60        49.90
 4132115.52 |        48.80        48.80        48.80        48.80        48.80
   48.80        49.10        49.60        49.90
 4132090.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.10        49.50        49.90
 4132065.52 |        48.80        48.80        48.80        48.80        48.80
   49.10        49.10        49.50        49.90
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***
```

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	721567.14	721592.14	721617.14	721642.14	721667.14	721692.14	721717.14	721742.14	721767.14	
4132640.52	50.30	50.40	50.60	50.90	50.90	50.80	50.60	50.40	50.30	
4132615.52	50.40	50.50	50.60	50.90	50.70	50.50	50.40	50.30	50.30	
4132590.52	50.40	50.60	50.60	50.70	50.50	50.40	50.30	50.30	50.30	
4132565.52	50.50	50.60	50.60	50.50	50.30	50.30	50.30	50.30	50.30	
4132540.52	50.60	50.60	50.60	50.30	50.30	50.30	50.30	50.30	50.40	
4132515.52	50.40	50.60	50.60	50.30	50.30	50.30	50.30	50.40	50.60	
4132490.52	50.30	50.40	50.60	50.30	50.30	50.30	50.30	50.40	50.60	
4132465.52	50.40	50.50	50.60	50.30	50.30	50.30	50.30	50.40	50.60	
4132440.52	50.40	50.60	50.40	50.30	50.30	50.30	50.30	50.40	50.60	
4132415.52	50.50	50.50	50.30	50.30	50.30	50.30	50.30	50.40	50.60	
4132390.52	50.50	50.50	50.30	50.30	50.30	50.30	50.30	50.40	50.60	
4132365.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.40	50.60	
4132340.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.40	50.60	
4132315.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.40	50.60	
4132290.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.50	
4132265.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	
4132240.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	
4132215.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	
4132190.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	
4132165.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	
4132140.52	50.10	50.30	50.30	50.30	50.30	50.30	50.30	50.30	50.30	

*** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	721792.14	721817.14	721842.14
4132640.52	50.30	50.30	50.30
4132615.52	50.30	50.30	50.40
4132590.52	50.40	50.40	50.50
4132565.52	50.60	50.60	50.70
4132540.52	50.60	50.60	50.80
4132515.52	50.60	50.60	50.80
4132490.52	50.60	50.60	50.60
4132465.52	50.60	50.60	50.70
4132440.52	50.60	50.60	50.80
4132415.52	50.60	50.60	50.80
4132390.52	50.60	50.60	50.80
4132365.52	50.60	50.60	50.60
4132340.52	50.60	50.60	50.60
4132315.52	50.60	50.60	50.60
4132290.52	50.60	50.60	50.60
4132265.52	50.60	50.60	50.60
4132240.52	50.50	50.60	50.60
4132215.52	50.30	50.50	50.60
4132190.52	50.30	50.50	50.60
4132165.52	50.30	50.50	50.60
4132140.52	50.30	50.50	50.60
4132115.52	50.40	50.50	50.60
4132090.52	50.60	50.60	50.60
4132065.52	50.60	50.60	50.60

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 721117.14   721142.14   721167.14   721192.14   721217.14
721242.14   721267.14   721292.14   721317.14
 -
- -

  4132640.52 | 49.10   49.10   49.10   49.10   49.10
    49.10   49.10   49.20   49.40
  4132615.52 | 49.10   49.10   49.10   49.10   49.10
    49.10   49.10   49.10   49.20
  4132590.52 | 49.10   49.10   49.10   48.90   48.90
    49.00   49.10   49.10   49.10
  4132565.52 | 49.10   49.10   49.00   48.80   48.80
    49.00   49.10   49.10   49.10
  4132540.52 | 49.00   49.10   49.00   48.80   48.80
    49.00   49.10   49.00   49.00
  4132515.52 | 48.90   49.00   48.80   48.80   48.80
    49.00   48.90   48.80   48.80
  4132490.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132465.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132440.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132415.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132390.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132365.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132340.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132315.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132290.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132265.52 | 48.80   48.80   48.80   48.80   48.80
    48.80   48.80   48.80   48.80
  4132240.52 | 48.80   48.80   48.80   48.80   48.80

 4132640.52 | 49.40   49.40   49.60   49.70   49.70
  50.00   50.00   50.00   50.20
 4132615.52 | 49.20   49.30   49.60   49.70   49.70
  49.80   50.00   50.00   50.20
 4132590.52 | 49.10   49.20   49.40   49.50   49.50
  49.70   50.00   50.00   50.20
 4132565.52 | 49.10   49.10   49.30   49.40   49.40
  49.70   50.00   50.10   50.30
 4132540.52 | 49.00   49.10   49.20   49.40   49.40
  49.70   50.00   50.20   50.40
 4132515.52 | 48.80   49.00   49.10   49.20   49.40
  49.70   50.00   50.00   50.20
 4132490.52 | 48.80   49.00   49.10   49.20   49.40
  49.50   50.00   50.00   50.20
 4132465.52 | 48.80   49.00   49.10   49.20   49.40
  49.60   49.80   49.90   50.20

```
  4132440.52 |         48.80        48.90        49.00        49.10        49.20
    49.60        49.70        49.90        50.20
  4132415.52 |         48.80        48.80        49.00        49.10        49.10
    49.40        49.70        49.90        50.20
  4132390.52 |         48.80        48.80        49.00        49.10        49.10
    49.40        49.70        49.90        50.30
  4132365.52 |         48.80        48.80        49.00        49.10        49.10
    49.40        49.70        49.90        50.00
  4132340.52 |         48.80        48.80        48.80        48.90        49.10
    49.40        49.70        49.90        50.00
  4132315.52 |         48.80        48.80        48.80        48.90        49.10
    49.40        49.70        49.90        50.00
  4132290.52 |         48.80        48.80        48.80        48.90        49.10
    49.40        49.50        49.80        49.90
  4132265.52 |         48.80        48.80        48.80        48.90        49.00
    49.30        49.40        49.60        49.90
  4132240.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.40        49.60        49.90
  4132215.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.40        49.60        49.90
  4132190.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.40        49.60        49.90
  4132165.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.40        49.60        49.90
  4132140.52 |         48.80        48.80        48.80        48.80        48.80
    49.00        49.40        49.60        49.90
  4132115.52 |         48.80        48.80        48.80        48.80        48.80
    48.80        49.10        49.60        49.90
  4132090.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.10        49.50        49.90
  4132065.52 |         48.80        48.80        48.80        48.80        48.80
    49.10        49.10        49.50        49.90
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

                                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                              * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721567.14    721592.14    721617.14    721642.14    721667.14
721692.14    721717.14    721742.14    721767.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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```
4132640.52 |         50.30        50.40        50.60        50.90        50.90
  50.80        50.60        50.40        50.30
4132615.52 |         50.40        50.50        50.60        50.90        50.70
  50.50        50.40        50.30        50.30
4132590.52 |         50.40        50.60        50.60        50.70        50.50
  50.40        50.30        50.30        50.30
4132565.52 |         50.50        50.60        50.60        50.50        50.30
  50.30        50.30        50.30        50.30
4132540.52 |         50.60        50.60        50.60        50.30        50.30
  50.30        50.30        50.30        50.40
4132515.52 |         50.40        50.60        50.60        50.30        50.30
  50.30        50.30        50.40        50.60
4132490.52 |         50.30        50.40        50.60        50.30        50.30
  50.30        50.30        50.40        50.60
4132465.52 |         50.40        50.50        50.60        50.30        50.30
  50.30        50.30        50.40        50.60
4132440.52 |         50.40        50.60        50.40        50.30        50.30
  50.30        50.30        50.40        50.60
4132415.52 |         50.50        50.50        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
4132390.52 |         50.50        50.50        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
4132365.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
4132340.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
4132315.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
4132290.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.50
4132265.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132240.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132215.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132190.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132165.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132140.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132115.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.30
4132090.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.30        50.40
4132065.52 |         50.10        50.30        50.30        50.30        50.30
  50.30        50.30        50.40        50.60
```

                                  *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD | X-COORD (METERS)
    (METERS) | 721792.14   721817.14   721842.14
 -
- -

  4132640.52 | 50.30   50.30   50.30
  4132615.52 | 50.30   50.30   50.40
  4132590.52 | 50.40   50.40   50.50
  4132565.52 | 50.60   50.60   50.70
  4132540.52 | 50.60   50.60   50.80
  4132515.52 | 50.60   50.60   50.80
  4132490.52 | 50.60   50.60   50.60
  4132465.52 | 50.60   50.60   50.70
  4132440.52 | 50.60   50.60   50.80
  4132415.52 | 50.60   50.60   50.80
  4132390.52 | 50.60   50.60   50.80
  4132365.52 | 50.60   50.60   50.60
  4132340.52 | 50.60   50.60   50.60
  4132315.52 | 50.60   50.60   50.60
  4132290.52 | 50.60   50.60   50.60
  4132265.52 | 50.60   50.60   50.60
  4132240.52 | 50.50   50.60   50.60
  4132215.52 | 50.30   50.50   50.60
  4132190.52 | 50.30   50.50   50.60
  4132165.52 | 50.30   50.50   50.60
  4132140.52 | 50.30   50.50   50.60
  4132115.52 | 50.40   50.50   50.60
  4132090.52 | 50.60   50.60   50.60
  4132065.52 | 50.60   50.60   50.60

                                  *** NETWORK ID: UCART1   ; NETWORK TYPE:

GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 721117.14	721142.14	721167.14	721192.14	721217.14	721242.14	721267.14	721292.14	721317.14
4132640.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132615.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132590.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132565.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132540.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132515.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132490.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132465.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132440.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132415.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132390.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132365.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132340.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132315.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132290.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132265.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132240.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132215.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132190.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4132165.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80

```
  4132140.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132115.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132090.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132065.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
```


*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

```
    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721342.14    721367.14    721392.14    721417.14    721442.14
721467.14    721492.14    721517.14    721542.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132615.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132590.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132565.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132540.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132515.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132490.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132465.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132440.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132415.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132390.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132365.52 |          1.80         1.80         1.80         1.80         1.80
```

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)										
	721567.14	721592.14	721617.14	721642.14	721667.14	721692.14	721717.14	721742.14	721767.14		
4132640.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80		
4132615.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80		
4132590.52	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80		

```
 4132565.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132540.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132515.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132490.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132465.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132440.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132415.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132390.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132365.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132340.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132315.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132290.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132265.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132240.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132215.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132190.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132165.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132140.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132115.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132090.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4132065.52 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 721792.14	721817.14	721842.14
4132640.52	1.80	1.80	1.80
4132615.52	1.80	1.80	1.80
4132590.52	1.80	1.80	1.80
4132565.52	1.80	1.80	1.80
4132540.52	1.80	1.80	1.80
4132515.52	1.80	1.80	1.80
4132490.52	1.80	1.80	1.80
4132465.52	1.80	1.80	1.80
4132440.52	1.80	1.80	1.80
4132415.52	1.80	1.80	1.80
4132390.52	1.80	1.80	1.80
4132365.52	1.80	1.80	1.80
4132340.52	1.80	1.80	1.80
4132315.52	1.80	1.80	1.80
4132290.52	1.80	1.80	1.80
4132265.52	1.80	1.80	1.80
4132240.52	1.80	1.80	1.80
4132215.52	1.80	1.80	1.80
4132190.52	1.80	1.80	1.80
4132165.52	1.80	1.80	1.80
4132140.52	1.80	1.80	1.80
4132115.52	1.80	1.80	1.80
4132090.52	1.80	1.80	1.80
4132065.52	1.80	1.80	1.80

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

721122.3, 721147.3, 721172.3, 721197.3, 721222.3, 721247.3, 721272.3, 721297.3, 721322.3, 721347.3,
721372.3, 721397.3, 721422.3, 721447.3, 721472.3, 721497.3, 721522.3, 721547.3, 721572.3, 721597.3,
721622.3,

*** Y-COORDINATES OF GRID ***
(METERS)

4132648.2, 4132673.2, 4132698.2, 4132723.2, 4132748.2, 4132773.2, 4132798.2, 4132823.2, 4132848.2, 4132873.2,
4132898.2, 4132923.2, 4132948.2, 4132973.2, 4132998.2, 4133023.2, 4133048.2, 4133073.2, 4133098.2, 4133123.2,
4133148.2,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) | | |

```
    50.00        50.30        50.30        50.30
  4132923.24 |        48.80        48.90        49.00        49.20        49.50
    50.00        50.20        50.30        50.30
  4132898.24 |        49.00        49.10        49.20        49.40        49.70
    49.90        50.10        50.30        50.30
  4132873.24 |        49.10        49.20        49.40        49.40        49.70
    49.90        50.00        50.10        50.30
  4132848.24 |        49.20        49.40        49.50        49.70        49.70
    49.90        50.00        50.00        50.00
  4132823.24 |        49.30        49.40        49.40        49.50        49.70
    49.90        50.00        50.00        50.00
  4132798.24 |        49.40        49.40        49.40        49.40        49.50
    49.80        49.80        49.90        49.90
  4132773.24 |        49.30        49.30        49.40        49.40        49.40
    49.60        49.70        49.80        49.80
  4132748.24 |        49.10        49.20        49.40        49.40        49.40
    49.60        49.70        49.70        49.60
  4132723.24 |        49.20        49.40        49.40        49.40        49.40
    49.60        49.70        49.50        49.50
  4132698.24 |        49.10        49.10        49.20        49.40        49.40
    49.60        49.50        49.40        49.40
  4132673.24 |        49.10        49.10        49.10        49.20        49.20
    49.40        49.40        49.40        49.40
  4132648.24 |        49.10        49.10        49.10        49.10        49.10
    49.20        49.20        49.30        49.40
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

                                    PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                                * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721347.34    721372.34    721397.34    721422.34    721447.34
721472.34    721497.34    721522.34    721547.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |        48.80        48.80        49.00        49.10        49.10
    49.20        49.40        49.70        49.70
  4133123.24 |        48.80        49.00        49.10        49.10        49.30
    49.30        49.40        49.50        49.60
  4133098.24 |        48.80        48.90        49.00        49.10        49.40
    49.40        49.50        49.40        49.70
```

```
 4133073.24 |         48.80        48.80        48.90        49.00        49.30
   49.30        49.60        49.50        49.80
 4133048.24 |         48.80        48.80        48.80        48.90        49.10
   49.20        49.50        49.70        49.80
 4133023.24 |         48.80        48.80        48.80        48.80        49.10
   49.20        49.70        50.00        50.00
 4132998.24 |         49.00        49.00        49.00        49.00        49.10
   49.20        49.70        50.00        50.00
 4132973.24 |         49.90        49.70        49.60        49.50        49.50
   49.60        49.70        50.00        50.00
 4132948.24 |         50.30        50.20        50.10        50.00        49.90
   49.90        49.90        50.00        50.10
 4132923.24 |         50.30        50.30        50.30        50.30        50.10
   50.10        50.10        50.10        50.20
 4132898.24 |         50.30        50.30        50.30        50.30        50.30
   50.30        50.30        50.30        50.10
 4132873.24 |         50.30        50.30        50.30        50.30        50.30
   50.30        50.30        50.30        50.30
 4132848.24 |         50.00        50.00        50.00        50.00        50.30
   50.30        50.30        50.30        50.30
 4132823.24 |         50.00        50.00        50.00        50.00        50.30
   50.30        50.30        50.30        50.30
 4132798.24 |         49.80        49.80        49.90        50.00        50.30
   50.30        50.30        50.30        50.30
 4132773.24 |         49.70        49.70        49.90        50.00        50.20
   50.20        50.30        50.30        50.40
 4132748.24 |         49.70        49.70        49.90        50.00        50.10
   50.10        50.20        50.30        50.50
 4132723.24 |         49.70        49.70        49.90        50.00        50.00
   50.20        50.00        50.30        50.30
 4132698.24 |         49.40        49.70        49.90        50.00        50.00
   50.00        50.00        50.30        50.30
 4132673.24 |         49.40        49.50        49.70        49.80        49.80
   50.00        50.00        50.30        50.30
 4132648.24 |         49.40        49.40        49.60        49.70        49.70
   50.00        50.00        50.10        50.30
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***         01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53

                                      PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                                  * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
```

```
    (METERS) |     721572.34    721597.34    721622.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |         49.70        49.70        49.70
  4133123.24 |         49.70        49.70        49.70
  4133098.24 |         49.90        49.80        49.70
  4133073.24 |         49.90        49.90        49.80
  4133048.24 |         49.90        50.00        49.90
  4133023.24 |         50.00        50.00        50.00
  4132998.24 |         50.00        50.00        50.00
  4132973.24 |         50.00        50.00        50.00
  4132948.24 |         50.20        50.10        50.00
  4132923.24 |         50.20        50.20        50.10
  4132898.24 |         50.20        50.30        50.30
  4132873.24 |         50.30        50.30        50.30
  4132848.24 |         50.30        50.30        50.30
  4132823.24 |         50.30        50.30        50.70
  4132798.24 |         50.40        50.50        51.00
  4132773.24 |         50.50        50.70        51.00
  4132748.24 |         50.60        50.70        50.80
  4132723.24 |         50.50        50.60        50.60
  4132698.24 |         50.50        50.60        50.70
  4132673.24 |         50.50        50.60        50.70
  4132648.24 |         50.40        50.50        50.70
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

                                    PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                                 * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     721122.34    721147.34    721172.34    721197.34    721222.34
721247.34    721272.34    721297.34    721322.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |         49.70        49.70        49.60        49.30        49.10
    49.00        49.10        48.90        48.80
  4133123.24 |         49.90        49.90        49.80        49.60        49.50
    49.30        49.20        48.90        48.80
  4133098.24 |         50.20        50.10        49.90        49.80        49.70
    49.40        49.20        48.90        48.80
```

```
 4133073.24 |         50.20         50.20         50.10         50.00         49.80
   49.60         49.20         48.90         48.80
 4133048.24 |         49.90         50.10         50.20         50.10         50.10
   49.70         49.20         48.90         48.80
 4133023.24 |         48.80         49.40         50.20         50.20         50.20
   49.50         49.00         48.80         48.80
 4132998.24 |         48.80         48.80         48.90         48.90         48.90
   48.90         49.00         49.00         49.00
 4132973.24 |         48.80         48.80         48.80         48.80         48.80
   49.60         49.90         50.00         50.00
 4132948.24 |         48.80         48.80         48.80         49.00         49.10
   50.00         50.30         50.30         50.30
 4132923.24 |         48.80         48.90         49.00         49.20         49.50
   50.00         50.20         50.30         50.30
 4132898.24 |         49.00         49.10         49.20         49.40         49.70
   49.90         50.10         50.30         50.30
 4132873.24 |         49.10         49.20         49.40         49.40         49.70
   49.90         50.00         50.10         50.30
 4132848.24 |         49.20         49.40         49.50         49.70         49.70
   49.90         50.00         50.00         50.00
 4132823.24 |         49.30         49.40         49.40         49.50         49.70
   49.90         50.00         50.00         50.00
 4132798.24 |         49.40         49.40         49.40         49.40         49.50
   49.80         49.80         49.90         49.90
 4132773.24 |         49.30         49.30         49.40         49.40         49.40
   49.60         49.70         49.80         49.80
 4132748.24 |         49.10         49.20         49.40         49.40         49.40
   49.60         49.70         49.70         49.60
 4132723.24 |         49.20         49.40         49.40         49.40         49.40
   49.60         49.70         49.50         49.50
 4132698.24 |         49.10         49.10         49.20         49.40         49.40
   49.60         49.50         49.40         49.40
 4132673.24 |         49.10         49.10         49.10         49.20         49.20
   49.40         49.40         49.40         49.40
 4132648.24 |         49.10         49.10         49.10         49.10         49.10
   49.20         49.20         49.30         49.40
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***          01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***         10:17:53

                                      PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                                  * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                  X-COORD (METERS)
```

```
    (METERS) |     721347.34    721372.34    721397.34    721422.34    721447.34
721472.34    721497.34    721522.34    721547.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |         48.80        48.80        49.00        49.10        49.10
    49.20        49.40        49.70        49.70
  4133123.24 |         48.80        49.00        49.10        49.10        49.30
    49.30        49.40        49.50        49.60
  4133098.24 |         48.80        48.90        49.00        49.10        49.40
    49.40        49.50        49.40        49.70
  4133073.24 |         48.80        48.80        48.90        49.00        49.30
    49.30        49.60        49.50        49.80
  4133048.24 |         48.80        48.80        48.80        48.90        49.10
    49.20        49.50        49.70        49.80
  4133023.24 |         48.80        48.80        48.80        48.80        49.10
    49.20        49.70        50.00        50.00
  4132998.24 |         49.00        49.00        49.00        49.00        49.10
    49.20        49.70        50.00        50.00
  4132973.24 |         49.90        49.70        49.60        49.50        49.50
    49.60        49.70        50.00        50.00
  4132948.24 |         50.30        50.20        50.10        50.00        49.90
    49.90        49.90        50.00        50.10
  4132923.24 |         50.30        50.30        50.30        50.30        50.10
    50.10        50.10        50.10        50.20
  4132898.24 |         50.30        50.30        50.30        50.30        50.30
    50.30        50.30        50.30        50.10
  4132873.24 |         50.30        50.30        50.30        50.30        50.30
    50.30        50.30        50.30        50.30
  4132848.24 |         50.00        50.00        50.00        50.00        50.30
    50.30        50.30        50.30        50.30
  4132823.24 |         50.00        50.00        50.00        50.00        50.30
    50.30        50.30        50.30        50.30
  4132798.24 |         49.80        49.80        49.90        50.00        50.30
    50.30        50.30        50.30        50.30
  4132773.24 |         49.70        49.70        49.90        50.00        50.20
    50.20        50.30        50.30        50.40
  4132748.24 |         49.70        49.70        49.90        50.00        50.10
    50.10        50.20        50.30        50.50
  4132723.24 |         49.70        49.70        49.90        50.00        50.00
    50.20        50.00        50.30        50.30
  4132698.24 |         49.40        49.70        49.90        50.00        50.00
    50.00        50.00        50.30        50.30
  4132673.24 |         49.40        49.50        49.70        49.80        49.80
    50.00        50.00        50.30        50.30
  4132648.24 |         49.40        49.40        49.60        49.70        49.70
    50.00        50.00        50.10        50.30
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
```

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 721572.34	721597.34	721622.34
4133148.24	49.70	49.70	49.70
4133123.24	49.70	49.70	49.70
4133098.24	49.90	49.80	49.70
4133073.24	49.90	49.90	49.80
4133048.24	49.90	50.00	49.90
4133023.24	50.00	50.00	50.00
4132998.24	50.00	50.00	50.00
4132973.24	50.00	50.00	50.00
4132948.24	50.20	50.10	50.00
4132923.24	50.20	50.20	50.10
4132898.24	50.20	50.30	50.30
4132873.24	50.30	50.30	50.30
4132848.24	50.30	50.30	50.30
4132823.24	50.30	50.30	50.70
4132798.24	50.40	50.50	51.00
4132773.24	50.50	50.70	51.00
4132748.24	50.60	50.70	50.80
4132723.24	50.50	50.60	50.60
4132698.24	50.50	50.60	50.70
4132673.24	50.50	50.60	50.70
4132648.24	50.40	50.50	50.70

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS) | X-COORD (METERS)

```
    (METERS) |     721122.34    721147.34    721172.34    721197.34    721222.34
721247.34    721272.34    721297.34    721322.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133123.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133098.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133073.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133048.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133023.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132998.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132973.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132948.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132923.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132898.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132873.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132848.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132823.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132798.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132773.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132748.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132723.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132698.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132673.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132648.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	721347.34	721372.34	721397.34	721422.34	721447.34	721472.34	721497.34	721522.34	721547.34	
4133148.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4133123.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4133098.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4133073.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4133048.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4133023.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132998.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132973.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132948.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132923.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132898.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132873.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132848.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132823.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132798.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132773.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	
4132748.24	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	

```
  4132723.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132698.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132673.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132648.24 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
```


*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

```
    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     721572.34    721597.34    721622.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |          1.80         1.80         1.80
  4133123.24 |          1.80         1.80         1.80
  4133098.24 |          1.80         1.80         1.80
  4133073.24 |          1.80         1.80         1.80
  4133048.24 |          1.80         1.80         1.80
  4133023.24 |          1.80         1.80         1.80
  4132998.24 |          1.80         1.80         1.80
  4132973.24 |          1.80         1.80         1.80
  4132948.24 |          1.80         1.80         1.80
  4132923.24 |          1.80         1.80         1.80
  4132898.24 |          1.80         1.80         1.80
  4132873.24 |          1.80         1.80         1.80
  4132848.24 |          1.80         1.80         1.80
  4132823.24 |          1.80         1.80         1.80
  4132798.24 |          1.80         1.80         1.80
  4132773.24 |          1.80         1.80         1.80
  4132748.24 |          1.80         1.80         1.80
  4132723.24 |          1.80         1.80         1.80
  4132698.24 |          1.80         1.80         1.80
  4132673.24 |          1.80         1.80         1.80
  4132648.24 |          1.80         1.80         1.80
```

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

*** X-COORDINATES OF GRID ***
(METERS)

718867.4, 718892.4, 718917.4, 718942.4, 718967.4, 718992.4, 719017.4, 719042.4, 719067.4, 719092.4,
719117.4, 719142.4, 719167.4, 719192.4, 719217.4, 719242.4, 719267.4, 719292.4, 719317.4, 719342.4,
719367.4, 719392.4, 719417.4, 719442.4, 719467.4,

*** Y-COORDINATES OF GRID ***
(METERS)

4132691.5, 4132716.5, 4132741.5, 4132766.5, 4132791.5, 4132816.5, 4132841.5, 4132866.5, 4132891.5, 4132916.5,
4132941.5, 4132966.5, 4132991.5, 4133016.5, 4133041.5, 4133066.5, 4133091.5, 4133116.5, 4133141.5, 4133166.5,
4133191.5, 4133216.5, 4133241.5, 4133266.5, 4133291.5, 4133316.5, 4133341.5, 4133366.5, 4133391.5, 4133416.5,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	718867.38	718892.38	718917.38	718942.38	718967.38	718992.38	719017.38	719042.38	719067.38	
4133416.48	47.50	47.50	47.20	47.20	47.20	47.20	47.20	47.20	47.20	

4133391.48 | 47.40 47.30 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133366.48 | 47.50 47.40 47.20 47.20 47.20 47.20 47.20 47.20 47.30
4133341.48 | 47.50 47.50 47.40 47.30 47.20 47.30 47.40 47.40 47.40
4133316.48 | 47.50 47.50 47.50 47.30 47.30 47.50 47.50 47.50 47.50
4133291.48 | 47.50 47.50 47.50 47.50 47.50 47.50 47.50 47.50 47.50
4133266.48 | 47.30 47.30 47.30 47.30 47.30 47.40 47.50 47.50 47.30
4133241.48 | 47.20 47.20 47.20 47.20 47.20 47.30 47.30 47.30 47.30
4133216.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133191.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133166.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133141.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133116.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133091.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133066.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133041.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4133016.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132991.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132966.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132941.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132916.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132891.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.20
4132866.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.30 47.30 47.30
4132841.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.40 47.50 47.50
4132816.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.30 47.30 47.50
4132791.48 | 47.20 47.20 47.20 47.20 47.20 47.20 47.20 47.30 47.50

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS) 719092.38	719117.38	719142.38	719167.38	719192.38	719217.38	719242.38	719267.38	719292.38
4133416.48	47.20	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133391.48	47.20	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133366.48	47.40	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133341.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133316.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133291.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133266.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
4133241.48	47.30	47.30	47.30	47.30	47.40	47.50	47.50	47.50	47.50
4133216.48	47.20	47.20	47.20	47.20	47.30	47.40	47.40	47.50	47.50
4133191.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.40	47.40
4133166.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20
4133141.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20
4132766.48	47.10	47.10	47.10	47.10	47.10	47.20	47.20	47.30	47.40
4132741.48	46.90	46.90	46.90	46.90	46.90	47.10	47.20	47.20	47.30
4132716.48	46.90	46.90	46.90	46.90	47.00	47.20	47.20	47.30	47.30
4132691.48	46.80	47.00	47.00	47.00	47.20	47.20	47.20	47.30	47.60

```
   47.20        47.20        47.20        47.20
 4133116.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4133091.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4133066.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4133041.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4133016.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132991.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132966.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132941.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132916.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132891.48 |        47.20        47.20        47.20        47.20        47.20
   47.20        47.20        47.20        47.20
 4132866.48 |        47.30        47.30        47.30        47.20        47.20
   47.20        47.20        47.20        47.20
 4132841.48 |        47.50        47.50        47.40        47.30        47.20
   47.20        47.20        47.20        47.20
 4132816.48 |        47.50        47.50        47.50        47.40        47.20
   47.20        47.20        47.20        47.20
 4132791.48 |        47.50        47.70        47.90        47.90        47.70
   47.50        47.50        47.50        47.50
 4132766.48 |        47.70        48.00        48.20        48.30        48.10
   47.90        47.90        47.80        47.90
 4132741.48 |        47.60        47.90        48.30        48.50        48.60
   48.40        48.30        48.10        48.20
 4132716.48 |        47.30        47.70        48.20        48.60        48.80
   48.70        48.60        48.40        48.50
 4132691.48 |        47.60        47.80        48.20        48.60        48.80
   48.80        48.80        48.80        48.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

                                      PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                                  * ELEVATION HEIGHTS IN METERS *
```

Y-COORD (METERS)	X-COORD (METERS)							
	719317.38	719342.38	719367.38	719392.38	719417.38	719442.38	719467.38	
4133416.48	47.60	47.60	47.60	47.80	47.90	47.90	47.90	
4133391.48	47.50	47.50	47.60	47.80	47.90	47.90	47.90	
4133366.48	47.50	47.50	47.60	47.80	47.90	47.90	47.90	
4133341.48	47.50	47.50	47.60	47.70	47.80	47.90	47.90	
4133316.48	47.50	47.50	47.50	47.50	47.70	47.80	47.80	
4133291.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133266.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133241.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133216.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133191.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133166.48	47.30	47.50	47.50	47.50	47.50	47.50	47.50	
4133141.48	47.20	47.20	47.20	47.20	47.20	47.40	47.50	
4133116.48	47.20	47.20	47.20	47.20	47.20	47.30	47.30	
4133091.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133066.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133041.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133016.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4132991.48	47.20	47.20	47.20	47.20	47.20	47.20	47.30	
4132966.48	47.20	47.20	47.20	47.20	47.20	47.20	47.40	
4132941.48	47.20	47.30	47.50	47.50	47.50	47.50	47.50	
4132916.48	47.20	47.30	47.50	47.50	47.50	47.50	47.50	
4132891.48	47.20	47.30	47.50	47.50	47.50	47.50	47.50	

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  4132866.48 |         47.20        47.30        47.50        47.50        47.50
    47.60        47.60
  4132841.48 |         47.30        47.40        47.60        47.60        47.60
    47.70        47.90
  4132816.48 |         47.40        47.50        47.60        47.80        47.60
    47.70        47.90
  4132791.48 |         47.50        47.60        47.80        48.10        47.90
    47.80        47.90
  4132766.48 |         47.90        48.00        48.10        48.30        48.10
    48.00        48.00
  4132741.48 |         48.30        48.30        48.30        48.60        48.40
    48.30        48.30
  4132716.48 |         48.50        48.50        48.60        48.80        48.60
    48.50        48.50
  4132691.48 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.60
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                    PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     718867.38    718892.38    718917.38    718942.38    718967.38
718992.38    719017.38    719042.38    719067.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133416.48 |         47.50        47.50        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4133391.48 |         47.40        47.30        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4133366.48 |         47.50        47.40        47.20        47.20        47.20
    47.20        47.20        47.20        47.30
  4133341.48 |         47.50        47.50        47.40        47.30        47.20
    47.30        47.40        47.40        47.40
  4133316.48 |         47.50        47.50        47.50        47.30        47.30
    47.50        47.50        47.50        47.50
  4133291.48 |         47.50        47.50        47.50        47.50        47.50
    47.50        47.50        47.50        47.50
  4133266.48 |         47.30        47.30        47.30        47.30        47.30
    47.40        47.50        47.50        47.30
  4133241.48 |         47.20        47.20        47.20        47.20        47.20
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  47.30        47.30        47.30        47.30
4133216.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133191.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133166.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133141.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133116.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133091.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133066.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133041.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4133016.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132991.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132966.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132941.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132916.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132891.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.20        47.20
4132866.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.30        47.30        47.30
4132841.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.40        47.50        47.50
4132816.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.30        47.30        47.50
4132791.48 |         47.20        47.20        47.20        47.20        47.20
  47.20        47.20        47.30        47.50
4132766.48 |         47.10        47.10        47.10        47.10        47.10
  47.20        47.20        47.30        47.40
4132741.48 |         46.90        46.90        46.90        46.90        46.90
  47.10        47.20        47.20        47.30
4132716.48 |         46.90        46.90        46.90        46.90        47.00
  47.20        47.20        47.30        47.30
4132691.48 |         46.80        47.00        47.00        47.00        47.20
  47.20        47.20        47.30        47.60
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***         01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	719092.38	719117.38	719142.38	719167.38	719192.38	719217.38	719242.38	719267.38	719292.38	
4133416.48	47.20	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133391.48	47.20	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133366.48	47.40	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133341.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133316.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133291.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133266.48	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	
4133241.48	47.30	47.30	47.30	47.30	47.40	47.50	47.50	47.50	47.50	
4133216.48	47.20	47.20	47.20	47.20	47.30	47.40	47.40	47.50	47.50	
4133191.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.40	47.40	
4133166.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133141.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133116.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133091.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133066.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133041.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4133016.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	
4132991.48	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	47.20	

```
  4132966.48 |         47.20        47.20        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4132941.48 |         47.20        47.20        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4132916.48 |         47.20        47.20        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4132891.48 |         47.20        47.20        47.20        47.20        47.20
    47.20        47.20        47.20        47.20
  4132866.48 |         47.30        47.30        47.30        47.20        47.20
    47.20        47.20        47.20        47.20
  4132841.48 |         47.50        47.50        47.40        47.30        47.20
    47.20        47.20        47.20        47.20
  4132816.48 |         47.50        47.50        47.50        47.40        47.20
    47.20        47.20        47.20        47.20
  4132791.48 |         47.50        47.70        47.90        47.90        47.70
    47.50        47.50        47.50        47.50
  4132766.48 |         47.70        48.00        48.20        48.30        48.10
    47.90        47.90        47.80        47.90
  4132741.48 |         47.60        47.90        48.30        48.50        48.60
    48.40        48.30        48.10        48.20
  4132716.48 |         47.30        47.70        48.20        48.60        48.80
    48.70        48.60        48.40        48.50
  4132691.48 |         47.60        47.80        48.20        48.60        48.80
    48.80        48.80        48.80        48.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***        10:17:53

                                    PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                                * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     719317.38    719342.38    719367.38    719392.38    719417.38
719442.38    719467.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133416.48 |         47.60        47.60        47.60        47.80        47.90
    47.90        47.90
  4133391.48 |         47.50        47.50        47.60        47.80        47.90
    47.90        47.90
  4133366.48 |         47.50        47.50        47.60        47.80        47.90
    47.90        47.90
  4133341.48 |         47.50        47.50        47.60        47.70        47.80
```

47.90 47.90
4133316.48 | 47.50 47.50 47.50 47.50 47.70
47.80 47.80
4133291.48 | 47.50 47.50 47.50 47.50 47.50
47.50 47.50
4133266.48 | 47.50 47.50 47.50 47.50 47.50
47.50 47.50
4133241.48 | 47.50 47.50 47.50 47.50 47.50
47.50 47.50
4133216.48 | 47.50 47.50 47.50 47.50 47.50
47.50 47.50
4133191.48 | 47.50 47.50 47.50 47.50 47.50
47.50 47.50
4133166.48 | 47.30 47.50 47.50 47.50 47.50
47.50 47.50
4133141.48 | 47.20 47.20 47.20 47.20 47.20
47.40 47.50
4133116.48 | 47.20 47.20 47.20 47.20 47.20
47.30 47.30
4133091.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.20
4133066.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.20
4133041.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.20
4133016.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.20
4132991.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.30
4132966.48 | 47.20 47.20 47.20 47.20 47.20
47.20 47.40
4132941.48 | 47.20 47.30 47.50 47.50 47.50
47.50 47.50
4132916.48 | 47.20 47.30 47.50 47.50 47.50
47.50 47.50
4132891.48 | 47.20 47.30 47.50 47.50 47.50
47.50 47.50
4132866.48 | 47.20 47.30 47.50 47.50 47.50
47.60 47.60
4132841.48 | 47.30 47.40 47.60 47.60 47.60
47.70 47.90
4132816.48 | 47.40 47.50 47.60 47.80 47.60
47.70 47.90
4132791.48 | 47.50 47.60 47.80 48.10 47.90
47.80 47.90
4132766.48 | 47.90 48.00 48.10 48.30 48.10
48.00 48.00
4132741.48 | 48.30 48.30 48.30 48.60 48.40
48.30 48.30
4132716.48 | 48.50 48.50 48.60 48.80 48.60

*** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	718867.38	718892.38	718917.38	718942.38	718967.38	718992.38	719017.38	719042.38	719067.38	
4133416.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133391.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133366.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133341.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133316.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133291.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133266.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133241.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133216.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133191.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133166.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133141.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133116.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80
4133091.48	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80	1.80

```
  4133066.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133041.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4133016.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132991.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132966.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132941.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132916.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132891.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132866.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132841.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132816.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132791.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132766.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132741.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132716.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4132691.48 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
♠ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***        10:17:53

                                    PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                              * RECEPTOR FLAGPOLE HEIGHTS IN METERS *

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     719092.38    719117.38    719142.38    719167.38    719192.38
719217.38    719242.38    719267.38    719292.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
```

4133416.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133391.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133366.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133341.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133316.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133291.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133266.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133241.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133216.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133191.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133166.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133141.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133116.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133091.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133066.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133041.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4133016.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132991.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132966.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132941.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132916.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132891.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132866.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132841.48 | 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80
4132816.48 | 1.80 1.80 1.80 1.80 1.80

*** NETWORK ID: UCART3   ; NETWORK TYPE:
GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) | | |

4133166.48	1.80	1.80	1.80	1.80	1.80	1.80
4133141.48	1.80	1.80	1.80	1.80	1.80	1.80
4133116.48	1.80	1.80	1.80	1.80	1.80	1.80
4133091.48	1.80	1.80	1.80	1.80	1.80	1.80
4133066.48	1.80	1.80	1.80	1.80	1.80	1.80
4133041.48	1.80	1.80	1.80	1.80	1.80	1.80
4133016.48	1.80	1.80	1.80	1.80	1.80	1.80
4132991.48	1.80	1.80	1.80	1.80	1.80	1.80
4132966.48	1.80	1.80	1.80	1.80	1.80	1.80
4132941.48	1.80	1.80	1.80	1.80	1.80	1.80
4132916.48	1.80	1.80	1.80	1.80	1.80	1.80
4132891.48	1.80	1.80	1.80	1.80	1.80	1.80
4132866.48	1.80	1.80	1.80	1.80	1.80	1.80
4132841.48	1.80	1.80	1.80	1.80	1.80	1.80
4132816.48	1.80	1.80	1.80	1.80	1.80	1.80
4132791.48	1.80	1.80	1.80	1.80	1.80	1.80
4132766.48	1.80	1.80	1.80	1.80	1.80	1.80
4132741.48	1.80	1.80	1.80	1.80	1.80	1.80
4132716.48	1.80	1.80	1.80	1.80	1.80	1.80
4132691.48	1.80	1.80	1.80	1.80	1.80	1.80

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** X-COORDINATES OF GRID ***
(METERS)

720314.9, 720339.9, 720364.9, 720389.9, 720414.9, 720439.9, 720464.9, 720489.9, 720514.9, 720539.9,
720564.9, 720589.9, 720614.9, 720639.9, 720664.9, 720689.9, 720714.9, 720739.9,

*** Y-COORDINATES OF GRID ***
(METERS)

4131376.6, 4131402.6, 4131428.5, 4131454.5, 4131480.4, 4131506.3, 4131532.3, 4131558.2, 4131584.2, 4131610.1,
4131636.0, 4131662.0, 4131687.9, 4131713.9, 4131739.8, 4131765.7, 4131791.7, 4131817.6, 4131843.6, 4131869.5,
4131895.4,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)																			
	720314.85	720339.85	720364.85	720389.85	720414.85	720439.85	720464.85	720489.85	720514.85											
4131895.44	48.50	48.60	49.00	49.70	50.30	50.60	51.00	51.20	51.30											
4131869.50	48.50	48.50	48.70	49.40	50.10	50.50	50.70	50.80	50.90											
4131843.56	48.50	48.50	48.70	49.20	49.90	50.30	50.40	50.50	50.60											
4131817.62	48.50	48.50	48.70	49.10	49.50	49.90	50.20	50.40	50.40											
4131791.68	48.50	48.50	48.60	48.80	49.10	49.60	50.10	50.20	50.20											
4131765.74	48.50	48.50	48.60	48.90	49.40	49.60	49.70	49.90	50.10											

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  4131739.80 |         48.50        48.60        48.80        49.10        49.40
    49.40        49.60        49.80        50.00
  4131713.86 |         48.50        48.70        49.00        49.10        49.20
    49.30        49.60        49.70        49.80
  4131687.92 |         48.50        48.80        49.10        49.10        49.10
    49.30        49.50        49.60        49.60
  4131661.98 |         48.60        48.80        49.10        49.10        49.10
    49.20        49.30        49.40        49.40
  4131636.04 |         48.70        48.90        49.10        49.10        49.10
    49.10        49.20        49.20        49.20
  4131610.10 |         48.70        48.90        49.00        49.00        49.00
    49.00        49.00        49.00        49.10
  4131584.16 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.90        49.10
  4131558.22 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4131532.28 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4131506.34 |         48.70        48.70        48.60        48.60        48.60
    48.70        48.80        48.80        48.80
  4131480.40 |         48.60        48.50        48.50        48.50        48.50
    48.60        48.60        48.60        48.60
  4131454.46 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.50        48.50        48.50
  4131428.52 |         48.50        48.40        48.40        48.50        48.50
    48.50        48.50        48.50        48.50
  4131402.58 |         48.40        48.30        48.30        48.40        48.50
    48.50        48.50        48.50        48.50
  4131376.64 |         48.20        48.20        48.20        48.20        48.50
    48.50        48.50        48.50        48.50
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***        10:17:53

                                    PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     720539.85    720564.85    720589.85    720614.85    720639.85
720664.85    720689.85    720714.85    720739.85
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  4131895.44 |         51.20        50.90        50.60        50.20        50.30
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  50.80        51.10        50.20        50.50
4131869.50 |        50.80        50.40        50.30        50.20        50.10
  50.50        51.10        51.40        51.40
4131843.56 |        50.60        50.30        50.20        50.20        50.10
  50.10        50.50        51.20        51.10
4131817.62 |        50.20        50.30        50.00        50.00        50.00
  50.10        50.20        50.30        50.70
4131791.68 |        50.10        50.30        50.00        50.00        50.00
  50.00        50.00        50.30        50.30
4131765.74 |        50.20        50.00        50.00        50.00        50.00
  50.00        50.00        50.00        50.30
4131739.80 |        50.00        49.70        49.70        49.90        49.90
  49.80        50.00        50.00        50.00
4131713.86 |        49.80        49.70        49.70        49.70        49.70
  49.70        49.80        50.00        50.00
4131687.92 |        49.50        49.70        49.70        49.70        49.70
  49.70        49.70        49.80        49.80
4131661.98 |        49.40        49.60        49.60        49.60        49.60
  49.60        49.60        49.70        49.70
4131636.04 |        49.30        49.30        49.40        49.50        49.50
  49.40        49.40        49.60        49.60
4131610.10 |        49.10        49.10        49.30        49.30        49.30
  49.30        49.30        49.40        49.40
4131584.16 |        49.10        49.10        49.10        49.10        49.10
  49.10        49.10        49.40        49.40
4131558.22 |        48.80        48.80        49.00        49.10        49.10
  49.10        49.10        49.10        49.10
4131532.28 |        48.80        48.80        48.80        48.80        48.80
  48.80        48.90        49.10        49.10
4131506.34 |        48.80        48.80        48.80        48.80        48.80
  48.80        48.80        48.90        48.90
4131480.40 |        48.60        48.60        48.70        48.80        48.80
  48.80        48.80        48.80        48.80
4131454.46 |        48.50        48.50        48.60        48.70        48.70
  48.70        48.80        48.80        48.80
4131428.52 |        48.50        48.50        48.50        48.50        48.50
  48.60        48.70        48.70        48.80
4131402.58 |        48.50        48.50        48.50        48.50        48.50
  48.50        48.50        48.50        48.70
4131376.64 |        48.50        48.50        48.50        48.50        48.50
  48.50        48.50        48.50        48.50
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***       10:17:53

                                      PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART4   ;  NETWORK TYPE:
```

GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	720314.85	720339.85	720364.85	720389.85	720414.85	720439.85	720464.85	720489.85	720514.85	
4131895.44	48.50	48.60	49.00	49.70	50.30	50.60	51.00	51.20	51.30	
4131869.50	48.50	48.50	48.70	49.40	50.10	50.50	50.70	50.80	50.90	
4131843.56	48.50	48.50	48.70	49.20	49.90	50.30	50.40	50.50	50.60	
4131817.62	48.50	48.50	48.70	49.10	49.50	49.90	50.20	50.40	50.40	
4131791.68	48.50	48.50	48.60	48.80	49.10	49.60	50.10	50.20	50.20	
4131765.74	48.50	48.50	48.60	48.90	49.40	49.60	49.70	49.90	50.10	
4131739.80	48.50	48.60	48.80	49.10	49.40	49.40	49.60	49.80	50.00	
4131713.86	48.50	48.70	49.00	49.10	49.20	49.30	49.60	49.70	49.80	
4131687.92	48.50	48.80	49.10	49.10	49.10	49.30	49.50	49.60	49.60	
4131661.98	48.60	48.80	49.10	49.10	49.10	49.20	49.30	49.40	49.40	
4131636.04	48.70	48.90	49.10	49.10	49.10	49.10	49.20	49.20	49.20	
4131610.10	48.70	48.90	49.00	49.00	49.00	49.00	49.00	49.00	49.10	
4131584.16	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.90	49.10	
4131558.22	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	
4131532.28	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	
4131506.34	48.70	48.70	48.60	48.60	48.60	48.70	48.80	48.80	48.80	
4131480.40	48.60	48.50	48.50	48.50	48.50	48.60	48.60	48.60	48.60	
4131454.46	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	48.50	
4131428.52	48.50	48.40	48.40	48.50	48.50	48.50	48.50	48.50	48.50	
4131402.58	48.40	48.30	48.30	48.40	48.50	48.50	48.50	48.50	48.50	

Y-COORD (METERS)	720539.85	720564.85	720589.85	720614.85	720639.85	720664.85	720689.85	720714.85	720739.85
4131895.44	51.20	50.90	50.60	50.20	50.30	50.80	51.10	50.20	50.50
4131869.50	50.80	50.40	50.30	50.20	50.10	50.50	51.10	51.40	51.40
4131843.56	50.60	50.30	50.20	50.20	50.10	50.10	50.50	51.20	51.10
4131817.62	50.20	50.30	50.00	50.00	50.00	50.10	50.20	50.30	50.70
4131791.68	50.10	50.30	50.00	50.00	50.00	50.00	50.00	50.30	50.30
4131765.74	50.20	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.30
4131739.80	50.00	49.70	49.70	49.90	49.90	49.80	50.00	50.00	50.00
4131713.86	49.80	49.70	49.70	49.70	49.70	49.70	49.80	50.00	50.00
4131687.92	49.50	49.70	49.70	49.70	49.70	49.70	49.70	49.80	49.80
4131661.98	49.40	49.60	49.60	49.60	49.60	49.60	49.60	49.70	49.70
4131636.04	49.30	49.30	49.40	49.50	49.50	49.40	49.40	49.60	49.60
4131610.10	49.10	49.10	49.30	49.30	49.30	49.30	49.30	49.40	49.40
4131584.16	49.10	49.10	49.10	49.10	49.10	49.10	49.10	49.40	49.40
4131558.22	48.80	48.80	49.00	49.10	49.10	49.10	49.10	49.10	49.10
4131532.28	48.80	48.80	48.80	48.80	48.80				

 4131895.44 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131869.50 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131843.56 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131817.62 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131791.68 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131765.74 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131739.80 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131713.86 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80
 4131687.92 | 1.80   1.80   1.80   1.80   1.80
    1.80   1.80   1.80   1.80

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  4131661.98 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131636.04 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131610.10 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131584.16 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131558.22 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131532.28 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131506.34 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131480.40 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131454.46 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131428.52 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131402.58 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131376.64 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                   PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                              * RECEPTOR FLAGPOLE HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     720539.85    720564.85    720589.85    720614.85    720639.85
720664.85    720689.85    720714.85    720739.85
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131895.44 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131869.50 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131843.56 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131817.62 |          1.80         1.80         1.80         1.80         1.80
```

```
    1.80         1.80         1.80         1.80
 4131791.68 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131765.74 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131739.80 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131713.86 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131687.92 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131661.98 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131636.04 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131610.10 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131584.16 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131558.22 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131532.28 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131506.34 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131480.40 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131454.46 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131428.52 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131402.58 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 4131376.64 |         1.80         1.80         1.80         1.80         1.80
    1.80         1.80         1.80         1.80
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                   PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                        *** GRIDDED RECEPTOR NETWORK SUMMARY ***

                                     *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                          *** X-COORDINATES OF GRID ***
                                                  (METERS)
```

720761.8, 720786.8, 720811.8, 720836.8, 720861.8, 720886.8, 720911.8,
720936.8, 720961.8, 720986.8,
721011.8, 721036.8,

*** Y-COORDINATES OF GRID ***
(METERS)

4130992.2, 4131017.2, 4131042.2, 4131067.2, 4131092.2, 4131117.2, 4131142.2,
4131167.2, 4131192.2, 4131217.2,
4131242.2, 4131267.2, 4131292.2, 4131317.2, 4131342.2, 4131367.2, 4131392.2,
4131417.2, 4131442.2, 4131467.2,
4131492.2, 4131517.2, 4131542.2, 4131567.2,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	720761.78	720786.78	720811.78	720836.78	720861.78	720886.78	720911.78	720936.78	720961.78	
4131567.21	49.30	49.40	49.50	49.50	49.50	49.60	49.80	49.80	49.80	
4131542.21	49.20	49.20	49.30	49.40	49.40	49.50	49.60	49.60	49.60	
4131517.21	49.00	49.10	49.10	49.30	49.30	49.30	49.30	49.40	49.40	
4131492.21	48.90	49.00	49.00	49.00	49.10	49.10	49.20	49.30	49.30	
4131467.21	48.80	48.80	48.80	48.80	49.10	49.10	49.10	49.10	49.10	
4131442.21	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.90	
4131417.21	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	
4131392.21	48.60	48.60	48.70	48.80	48.80	48.80	48.80	48.80	48.80	
4131367.21	48.50	48.50	48.50	48.70	48.80	48.80	48.80	48.80	48.80	

```
  4131342.21 |         48.50        48.50        48.50        48.50        48.70
    48.80        48.80        48.80        48.80
  4131317.21 |         48.50        48.50        48.50        48.50        48.50
    48.70        48.80        48.80        48.80
  4131292.21 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.50        48.60        48.80
  4131267.21 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.50        48.50        48.60
  4131242.21 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.50        48.50        48.50
  4131217.21 |         48.40        48.40        48.50        48.50        48.50
    48.50        48.50        48.50        48.50
  4131192.21 |         48.20        48.30        48.40        48.50        48.40
    48.50        48.50        48.50        48.50
  4131167.21 |         48.20        48.20        48.30        48.40        48.20
    48.40        48.50        48.50        48.50
  4131142.21 |         48.20        48.20        48.20        48.20        48.40
    48.40        48.50        48.50        48.50
  4131117.21 |         48.20        48.20        48.20        48.20        48.30
    48.30        48.30        48.40        48.50
  4131092.21 |         48.20        48.20        48.20        48.20        48.20
    48.20        48.20        48.30        48.50
  4131067.21 |         48.20        48.20        48.20        48.20        48.20
    48.20        48.20        48.30        48.40
  4131042.21 |         48.20        48.20        48.20        48.20        48.20
    48.20        48.20        48.20        48.20
  4131017.21 |         48.20        48.20        48.20        48.20        48.20
    48.20        48.20        48.20        48.20
  4130992.21 |         47.90        48.00        48.20        48.20        48.20
    48.20        48.20        48.20        48.20
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***        10:17:53

                                    PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                                 * ELEVATION HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     720986.78    721011.78    721036.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131567.21 |         49.80        49.80        50.00
  4131542.21 |         49.60        49.70        49.80
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```
  4131517.21 |         49.40        49.60        49.60
  4131492.21 |         49.30        49.30        49.40
  4131467.21 |         49.10        49.10        49.30
  4131442.21 |         49.10        49.10        49.10
  4131417.21 |         48.90        48.90        49.00
  4131392.21 |         48.80        48.80        49.00
  4131367.21 |         48.80        48.80        48.90
  4131342.21 |         48.80        48.80        48.80
  4131317.21 |         48.80        48.80        48.80
  4131292.21 |         48.80        48.80        48.80
  4131267.21 |         48.60        48.80        48.80
  4131242.21 |         48.50        48.70        48.80
  4131217.21 |         48.50        48.70        48.80
  4131192.21 |         48.50        48.70        48.80
  4131167.21 |         48.50        48.50        48.70
  4131142.21 |         48.50        48.50        48.50
  4131117.21 |         48.50        48.50        48.50
  4131092.21 |         48.50        48.50        48.40
  4131067.21 |         48.40        48.50        48.20
  4131042.21 |         48.20        48.40        48.20
  4131017.21 |         48.20        48.20        48.20
  4130992.21 |         48.20        48.20        48.20
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53

                                     PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                                 * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                    X-COORD (METERS)
    (METERS) |     720761.78    720786.78    720811.78    720836.78    720861.78
720886.78    720911.78    720936.78    720961.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131567.21 |         49.30        49.40        49.50        49.50        49.50
    49.60        49.80        49.80        49.80
  4131542.21 |         49.20        49.20        49.30        49.40        49.40
    49.50        49.60        49.60        49.60
  4131517.21 |         49.00        49.10        49.10        49.30        49.30
    49.30        49.30        49.40        49.40
  4131492.21 |         48.90        49.00        49.00        49.00        49.10
    49.10        49.20        49.30        49.30
  4131467.21 |         48.80        48.80        48.80        48.80        49.10
```

```
   49.10        49.10        49.10        49.10
 4131442.21 |        48.80        48.80        48.80        48.80        48.80
   48.80        48.80        48.80        48.90
 4131417.21 |        48.80        48.80        48.80        48.80        48.80
   48.80        48.80        48.80        48.80
 4131392.21 |        48.60        48.60        48.70        48.80        48.80
   48.80        48.80        48.80        48.80
 4131367.21 |        48.50        48.50        48.50        48.70        48.80
   48.80        48.80        48.80        48.80
 4131342.21 |        48.50        48.50        48.50        48.50        48.70
   48.80        48.80        48.80        48.80
 4131317.21 |        48.50        48.50        48.50        48.50        48.50
   48.70        48.80        48.80        48.80
 4131292.21 |        48.50        48.50        48.50        48.50        48.50
   48.50        48.50        48.60        48.80
 4131267.21 |        48.50        48.50        48.50        48.50        48.50
   48.50        48.50        48.50        48.60
 4131242.21 |        48.50        48.50        48.50        48.50        48.50
   48.50        48.50        48.50        48.50
 4131217.21 |        48.40        48.40        48.50        48.50        48.50
   48.50        48.50        48.50        48.50
 4131192.21 |        48.20        48.30        48.40        48.50        48.40
   48.50        48.50        48.50        48.50
 4131167.21 |        48.20        48.20        48.30        48.40        48.20
   48.40        48.50        48.50        48.50
 4131142.21 |        48.20        48.20        48.20        48.20        48.40
   48.40        48.50        48.50        48.50
 4131117.21 |        48.20        48.20        48.20        48.20        48.30
   48.30        48.30        48.40        48.50
 4131092.21 |        48.20        48.20        48.20        48.20        48.20
   48.20        48.20        48.30        48.50
 4131067.21 |        48.20        48.20        48.20        48.20        48.20
   48.20        48.20        48.30        48.40
 4131042.21 |        48.20        48.20        48.20        48.20        48.20
   48.20        48.20        48.20        48.20
 4131017.21 |        48.20        48.20        48.20        48.20        48.20
   48.20        48.20        48.20        48.20
 4130992.21 |        47.90        48.00        48.20        48.20        48.20
   48.20        48.20        48.20        48.20
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                   *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***
```

* HILL HEIGHT SCALES IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	720986.78	721011.78	721036.78
4131567.21	49.80	49.80	50.00
4131542.21	49.60	49.70	49.80
4131517.21	49.40	49.60	49.60
4131492.21	49.30	49.30	49.40
4131467.21	49.10	49.10	49.30
4131442.21	49.10	49.10	49.10
4131417.21	48.90	48.90	49.00
4131392.21	48.80	48.80	49.00
4131367.21	48.80	48.80	48.90
4131342.21	48.80	48.80	48.80
4131317.21	48.80	48.80	48.80
4131292.21	48.80	48.80	48.80
4131267.21	48.60	48.80	48.80
4131242.21	48.50	48.70	48.80
4131217.21	48.50	48.70	48.80
4131192.21	48.50	48.70	48.80
4131167.21	48.50	48.50	48.70
4131142.21	48.50	48.50	48.50
4131117.21	48.50	48.50	48.50
4131092.21	48.50	48.50	48.40
4131067.21	48.40	48.50	48.20
4131042.21	48.20	48.40	48.20
4131017.21	48.20	48.20	48.20
4130992.21	48.20	48.20	48.20

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)							
	720761.78	720786.78	720811.78	720836.78	720861.78	720886.78	720911.78	720936.78	720961.78

4131567.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131542.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131517.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131492.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131467.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131442.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131417.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131392.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131367.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131342.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131317.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131292.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131267.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131242.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131217.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131192.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131167.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131142.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131117.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131092.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131067.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131042.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4131017.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80
4130992.21		1.80		1.80		1.80		1.80		1.80		1.80		1.80

*** NETWORK ID: UCART5   ; NETWORK TYPE:
GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)		
	720986.78	721011.78	721036.78
4131567.21	1.80	1.80	1.80
4131542.21	1.80	1.80	1.80
4131517.21	1.80	1.80	1.80
4131492.21	1.80	1.80	1.80
4131467.21	1.80	1.80	1.80
4131442.21	1.80	1.80	1.80
4131417.21	1.80	1.80	1.80
4131392.21	1.80	1.80	1.80
4131367.21	1.80	1.80	1.80
4131342.21	1.80	1.80	1.80
4131317.21	1.80	1.80	1.80
4131292.21	1.80	1.80	1.80
4131267.21	1.80	1.80	1.80
4131242.21	1.80	1.80	1.80
4131217.21	1.80	1.80	1.80
4131192.21	1.80	1.80	1.80
4131167.21	1.80	1.80	1.80
4131142.21	1.80	1.80	1.80
4131117.21	1.80	1.80	1.80
4131092.21	1.80	1.80	1.80
4131067.21	1.80	1.80	1.80
4131042.21	1.80	1.80	1.80
4131017.21	1.80	1.80	1.80
4130992.21	1.80	1.80	1.80

*** GRIDDED RECEPTOR NETWORK SUMMARY ***

*** X-COORDINATES OF GRID ***
(METERS)

721041.5, 721066.5, 721091.5, 721116.5, 721141.5, 721166.5, 721191.5, 721216.5, 721241.5, 721266.5,
721291.5, 721316.5, 721341.5, 721366.5, 721391.5, 721416.5,

*** Y-COORDINATES OF GRID ***
(METERS)

4131064.1, 4131084.1, 4131104.1, 4131124.1, 4131144.1, 4131164.1, 4131184.1, 4131204.1, 4131224.1, 4131244.1,
4131264.1, 4131284.1, 4131304.1, 4131324.1, 4131344.1, 4131364.1,

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)									
	721041.49	721066.49	721091.49	721116.49	721141.49	721166.49	721191.49	721216.49	721241.49	
4131364.06	48.90	49.00	49.10	49.10	49.10	49.10	49.10	49.10	49.10	
4131344.06	48.80	49.00	49.10	49.10	49.10	49.10	49.10	49.10	49.10	
4131324.06	48.80	48.80	49.00	49.10	49.10	49.10	48.90	48.90	48.90	
4131304.06	48.80	48.80	48.90	49.00	49.00	48.90	48.80	48.80	48.80	
4131284.06	48.80	48.80	48.90	48.90	48.80	48.80	48.80	48.80	48.80	
4131264.06	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	48.80	
4131244.06	48.80	48.80	48.80	48.80	48.80	48.80	48.70	48.70	48.70	
4131224.06	48.80	48.80	48.80	48.80	48.80	48.80				

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART ***

* ELEVATION HEIGHTS IN METERS *

Y-COORD (METERS)	X-COORD (METERS)				
	721266.49	721291.49	721316.49	721341.49	721366.49
721391.49	721416.49				
4131364.06	49.00	49.00	49.00	49.00	49.60
50.10	50.50				
4131344.06	48.90	48.80	48.80	48.80	49.20
49.70	50.00				
4131324.06	48.80	48.80	48.80	48.80	48.90
49.20	49.40				
4131304.06	48.80	48.80	48.80	48.80	48.80
48.90	49.00				
4131284.06	48.80	48.80	48.80	48.80	48.80
48.80	48.80				
4131264.06	48.80	48.70	48.60	48.60	48.70
48.80	48.80				
4131244.06	48.70	48.60	48.50	48.50	48.70
48.80	48.70				
4131224.06	48.70	48.50	48.50	48.60	48.60
48.70	48.50				
4131204.06	48.80	48.80	48.80	48.70	48.60
48.50	48.50				
4131184.06	48.80	48.80	48.80	48.60	48.50
48.50	48.50				
4131164.06	48.70	48.80	48.80	48.60	48.50
48.50	48.50				
4131144.06	48.50	48.60	48.60	48.50	48.50
48.50	48.50				
4131124.06	48.50	48.50	48.50	48.50	48.50
48.50	48.50				
4131104.06	48.50	48.50	48.50	48.50	48.50
48.50	48.50				
4131084.06	48.30	48.40	48.50	48.50	48.50
48.40	48.30				
4131064.06	48.20	48.40	48.50	48.40	48.40
48.40	48.20				

```
  4131224.06 |         48.60        48.50        48.50        48.50        48.70
    48.80        48.60
  4131204.06 |         48.50        48.50        48.50        48.50        48.50
    48.60        48.50
  4131184.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.40
  4131164.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.30
  4131144.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.30
  4131124.06 |         48.50        48.50        48.50        48.50        48.50
    48.40        48.30
  4131104.06 |         48.50        48.50        48.50        48.50        48.50
    48.30        48.20
  4131084.06 |         48.30        48.50        48.50        48.50        48.50
    48.30        48.20
  4131064.06 |         48.30        48.50        48.50        48.50        48.40
    48.20        48.20
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                            ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART6   ;  NETWORK TYPE:
GRIDCART ***

                                                 * HILL HEIGHT SCALES IN METERS *

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     721041.49    721066.49    721091.49    721116.49    721141.49
721166.49    721191.49    721216.49    721241.49
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131364.06 |         48.90        49.00        49.10        49.10        49.10
    49.10        49.10        49.10        49.10
  4131344.06 |         48.80        49.00        49.10        49.10        49.10
    49.10        49.10        49.10        49.10
  4131324.06 |         48.80        48.80        49.00        49.10        49.10
    49.10        48.90        48.90        48.90
  4131304.06 |         48.80        48.80        48.90        49.00        49.00
    48.90        48.80        48.80        48.80
  4131284.06 |         48.80        48.80        48.90        48.90        48.80
    48.80        48.80        48.80        48.80
  4131264.06 |         48.80        48.80        48.80        48.80        48.80
    48.80        48.80        48.80        48.80
  4131244.06 |         48.80        48.80        48.80        48.80        48.80
```

48.80 48.70 48.70 48.70
4131224.06 | 48.80 48.80 48.80 48.80 48.80 48.80
48.70 48.50 48.50 48.60
4131204.06 | 48.80 48.80 48.80 48.70 48.60
48.50 48.50 48.50 48.50
4131184.06 | 48.80 48.80 48.80 48.60 48.50
48.50 48.50 48.50 48.50
4131164.06 | 48.70 48.80 48.80 48.60 48.50
48.50 48.50 48.50 48.50
4131144.06 | 48.50 48.60 48.60 48.50 48.50
48.50 48.50 48.50 48.50
4131124.06 | 48.50 48.50 48.50 48.50 48.50
48.50 48.50 48.50 48.50
4131104.06 | 48.50 48.50 48.50 48.50 48.50
48.50 48.50 48.50 48.50
4131084.06 | 48.30 48.40 48.50 48.50 48.50
48.40 48.30 48.30 48.30
4131064.06 | 48.20 48.40 48.50 48.40 48.40
48.40 48.20 48.20 48.20
*** AERMOD - VERSION 23132 *** *** MITC CONSTRUCTION HRA (NO SOLAR)
*** 01/02/24
*** AERMET - VERSION 21112 *** ***
*** 10:17:53

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** NETWORK ID: UCART6 ; NETWORK TYPE:
GRIDCART ***

* HILL HEIGHT SCALES IN METERS *

Y-COORD | X-COORD (METERS)
(METERS) | 721266.49 721291.49 721316.49 721341.49 721366.49
721391.49 721416.49
- - - -

```
  4131244.06 |         48.70        48.60        48.50        48.50        48.70
    48.80        48.70
  4131224.06 |         48.60        48.50        48.50        48.50        48.70
    48.80        48.60
  4131204.06 |         48.50        48.50        48.50        48.50        48.50
    48.60        48.50
  4131184.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.40
  4131164.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.30
  4131144.06 |         48.50        48.50        48.50        48.50        48.50
    48.50        48.30
  4131124.06 |         48.50        48.50        48.50        48.50        48.50
    48.40        48.30
  4131104.06 |         48.50        48.50        48.50        48.50        48.50
    48.30        48.20
  4131084.06 |         48.30        48.50        48.50        48.50        48.50
    48.30        48.20
  4131064.06 |         48.30        48.50        48.50        48.50        48.40
    48.20        48.20
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** NETWORK ID: UCART6   ;  NETWORK TYPE:
GRIDCART ***

                                              * RECEPTOR FLAGPOLE HEIGHTS IN METERS *

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721041.49    721066.49    721091.49    721116.49    721141.49
721166.49    721191.49    721216.49    721241.49
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131364.06 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131344.06 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131324.06 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131304.06 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131284.06 |          1.80         1.80         1.80         1.80         1.80
     1.80         1.80         1.80         1.80
  4131264.06 |          1.80         1.80         1.80         1.80         1.80
```

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART ***

* RECEPTOR FLAGPOLE HEIGHTS IN METERS *

| Y-COORD (METERS) | X-COORD (METERS) | | |

```
 4131264.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131244.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131224.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131204.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131184.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131164.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131144.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131124.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131104.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131084.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
 4131064.06 |          1.80         1.80         1.80         1.80         1.80
    1.80         1.80
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                             ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                             ***        10:17:53

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 721792.2, 4132066.3,      50.6,      50.6,       1.8);         ( 721583.8,
4131986.1,      50.3,      50.3,       0.0);
     ( 721606.8, 4131976.2,      50.3,      50.3,       0.0);         ( 721629.8,
4131966.4,      50.3,      50.3,       0.0);
     ( 721652.8, 4131956.5,      50.3,      50.3,       0.0);         ( 721675.7,
4131946.7,      50.3,      50.3,       0.0);
     ( 721698.7, 4131936.8,      50.3,      50.3,       0.0);         ( 721721.7,
4131926.9,      50.3,      50.3,       0.0);
     ( 721744.7, 4131917.1,      50.3,      50.3,       0.0);         ( 721767.6,
4131907.2,      50.3,      50.3,       0.0);
     ( 721790.6, 4131897.4,      50.3,      50.3,       0.0);         ( 721813.6,
4131887.5,      50.3,      50.3,       0.0);
     ( 721836.6, 4131877.7,      50.3,      50.3,       0.0);         ( 721859.5,
4131867.8,      50.3,      50.3,       0.0);
     ( 721882.5, 4131858.0,      50.3,      50.3,       0.0);         ( 721905.5,
4131848.1,      50.3,      50.3,       0.0);
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     ( 721928.5, 4131838.2,      50.3,      50.3,       0.0);         ( 721951.4,
4131828.4,      50.3,      50.3,       0.0);
     ( 721974.4, 4131818.5,      50.3,      50.3,       0.0);         ( 721997.4,
4131808.7,      50.3,      50.3,       0.0);
     ( 722020.4, 4131798.8,      50.3,      50.3,       0.0);         ( 722043.3,
4131789.0,      50.3,      50.3,       0.0);
     ( 722066.3, 4131779.1,      50.3,      50.3,       0.0);         ( 722089.3,
4131769.3,      50.3,      50.3,       0.0);
     ( 722112.3, 4131759.4,      50.3,      50.3,       0.0);         ( 722135.2,
4131749.6,      50.3,      50.3,       0.0);
     ( 722158.2, 4131739.7,      50.3,      50.3,       0.0);         ( 722181.2,
4131729.8,      50.3,      50.3,       0.0);
     ( 722204.2, 4131720.0,      50.3,      50.3,       0.0);         ( 722227.2,
4131710.1,      50.3,      50.3,       0.0);
     ( 722250.1, 4131700.3,      50.3,      50.3,       0.0);         ( 722273.1,
4131690.4,      50.3,      50.3,       0.0);
     ( 722296.1, 4131680.6,      50.3,      50.3,       0.0);         ( 722319.1,
4131670.7,      50.3,      50.3,       0.0);
     ( 722342.0, 4131660.9,      50.3,      50.3,       0.0);         ( 722365.0,
4131651.0,      50.3,      50.3,       0.0);
     ( 722388.0, 4131641.1,      50.3,      50.3,       0.0);         ( 722411.0,
4131631.3,      50.3,      50.3,       0.0);
     ( 722433.9, 4131621.4,      50.3,      50.3,       0.0);         ( 722456.9,
4131611.6,      50.3,      50.3,       0.0);
     ( 722479.9, 4131601.7,      50.6,      50.6,       0.0);         ( 722502.9,
4131591.9,      50.6,      50.6,       0.0);
     ( 722525.8, 4131582.0,      50.6,      50.6,       0.0);         ( 722548.8,
4131572.2,      50.6,      50.6,       0.0);
     ( 722571.8, 4131562.3,      50.6,      50.6,       0.0);         ( 722594.8,
4131552.4,      50.6,      50.6,       0.0);
     ( 722617.7, 4131542.6,      50.6,      50.6,       0.0);         ( 722640.7,
4131532.7,      50.6,      50.6,       0.0);
     ( 722663.7, 4131522.9,      50.6,      50.6,       0.0);         ( 722686.7,
4131513.0,      50.6,      50.6,       0.0);
     ( 722709.6, 4131503.2,      50.6,      50.6,       0.0);         ( 722732.6,
4131493.3,      50.6,      50.6,       0.0);
     ( 722755.6, 4131483.5,      50.6,      50.6,       0.0);         ( 722778.6,
4131473.6,      50.6,      50.6,       0.0);
     ( 722801.5, 4131463.8,      50.6,      50.6,       0.0);         ( 722824.5,
4131453.9,      50.6,      50.6,       0.0);
     ( 722847.5, 4131444.0,      50.6,      50.6,       0.0);         ( 722870.5,
4131434.2,      50.6,      50.6,       0.0);
     ( 722893.4, 4131424.3,      50.6,      50.6,       0.0);         ( 722916.4,
4131414.5,      50.6,      50.6,       0.0);
     ( 722939.4, 4131404.6,      50.6,      50.6,       0.0);         ( 722962.4,
4131394.8,      50.9,      50.9,       0.0);
     ( 722985.3, 4131384.9,      50.9,      50.9,       0.0);         ( 723008.3,
4131375.1,      50.9,      50.9,       0.0);
     ( 723031.3, 4131365.2,      50.9,      50.9,       0.0);         ( 723054.3,
4131355.3,      50.9,      50.9,       0.0);
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     ( 723077.2, 4131345.5,      50.9,      50.9,       0.0);         ( 723100.2,
4131335.6,      50.9,      50.9,       0.0);
     ( 723123.2, 4131325.8,      50.9,      50.9,       0.0);         ( 723146.2,
4131315.9,      50.9,      50.9,       0.0);
     ( 723169.1, 4131306.1,      50.9,      50.9,       0.0);         ( 723192.1,
4131296.2,      50.9,      50.9,       0.0);
     ( 723267.0, 4131369.8,      51.0,      51.0,       0.0);         ( 723245.7,
4131382.0,      50.9,      50.9,       0.0);
     ( 723222.7, 4131391.9,      51.0,      51.0,       0.0);         ( 723199.7,
4131401.8,      51.2,      51.2,       0.0);
     ( 723176.7, 4131411.6,      51.2,      51.2,       0.0);         ( 723153.8,
4131421.5,      51.1,      51.1,       0.0);
     ( 723130.8, 4131431.3,      51.2,      51.2,       0.0);         ( 723107.8,
4131441.2,      51.1,      51.1,       0.0);
     ( 723084.8, 4131451.0,      50.9,      50.9,       0.0);         ( 723061.9,
4131460.9,      50.9,      50.9,       0.0);
     ( 723038.9, 4131470.8,      50.9,      50.9,       0.0);         ( 723015.9,
4131480.6,      50.9,      50.9,       0.0);
     ( 722992.9, 4131490.5,      50.9,      50.9,       0.0);         ( 722970.0,
4131500.3,      50.9,      50.9,       0.0);
     ( 722947.0, 4131510.2,      50.9,      50.9,       0.0);         ( 722924.0,
4131520.0,      50.9,      50.9,       0.0);
     ( 722901.0, 4131529.9,      50.9,      50.9,       0.0);         ( 722878.1,
4131539.7,      50.9,      50.9,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                    PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 722855.1, 4131549.6,      50.9,      50.9,       0.0);         ( 722832.1,
4131559.4,      50.9,      50.9,       0.0);
     ( 722809.1, 4131569.3,      50.9,      50.9,       0.0);         ( 722786.2,
4131579.2,      50.9,      50.9,       0.0);
     ( 722763.2, 4131589.0,      50.9,      50.9,       0.0);         ( 722740.2,
4131598.9,      50.8,      50.8,       0.0);
     ( 722717.2, 4131608.7,      50.8,      50.8,       0.0);         ( 722694.3,
4131618.6,      50.6,      50.6,       0.0);
     ( 722671.3, 4131628.4,      50.6,      50.6,       0.0);         ( 722648.3,
4131638.3,      50.6,      50.6,       0.0);
     ( 722625.3, 4131648.1,      50.6,      50.6,       0.0);         ( 722602.4,
4131658.0,      50.6,      50.6,       0.0);
     ( 722579.4, 4131667.9,      50.6,      50.6,       0.0);         ( 722556.4,
4131677.7,      50.6,      50.6,       0.0);
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     ( 722533.4, 4131687.6,      50.6,      50.6,       0.0);         ( 722510.5,
4131697.4,      50.6,      50.6,       0.0);
     ( 722487.5, 4131707.3,      50.3,      50.3,       0.0);         ( 722464.5,
4131717.1,      50.3,      50.3,       0.0);
     ( 722441.5, 4131727.0,      50.3,      50.3,       0.0);         ( 722418.6,
4131736.8,      50.3,      50.3,       0.0);
     ( 722395.6, 4131746.7,      50.3,      50.3,       0.0);         ( 722372.6,
4131756.5,      50.3,      50.3,       0.0);
     ( 722349.6, 4131766.4,      50.3,      50.3,       0.0);         ( 722326.7,
4131776.3,      50.3,      50.3,       0.0);
     ( 722303.7, 4131786.1,      50.3,      50.3,       0.0);         ( 722280.7,
4131796.0,      50.3,      50.3,       0.0);
     ( 722257.7, 4131805.8,      50.3,      50.3,       0.0);         ( 722234.8,
4131815.7,      50.3,      50.3,       0.0);
     ( 722211.8, 4131825.5,      50.3,      50.3,       0.0);         ( 722188.8,
4131835.4,      50.3,      50.3,       0.0);
     ( 722165.8, 4131845.2,      50.3,      50.3,       0.0);         ( 722142.8,
4131855.1,      50.3,      50.3,       0.0);
     ( 722119.9, 4131865.0,      50.3,      50.3,       0.0);         ( 722096.9,
4131874.8,      50.3,      50.3,       0.0);
     ( 722073.9, 4131884.7,      50.3,      50.3,       0.0);         ( 722050.9,
4131894.5,      50.3,      50.3,       0.0);
     ( 722028.0, 4131904.4,      50.3,      50.3,       0.0);         ( 722005.0,
4131914.2,      50.3,      50.3,       0.0);
     ( 721982.0, 4131924.1,      50.3,      50.3,       0.0);         ( 721959.0,
4131933.9,      50.3,      50.3,       0.0);
     ( 721936.1, 4131943.8,      50.3,      50.3,       0.0);         ( 721913.1,
4131953.7,      50.3,      50.3,       0.0);
     ( 721890.1, 4131963.5,      50.3,      50.3,       0.0);         ( 721867.1,
4131973.4,      50.3,      50.3,       0.0);
     ( 721844.2, 4131983.2,      50.3,      50.3,       0.0);         ( 721821.2,
4131993.1,      50.5,      50.5,       0.0);
     ( 721798.2, 4132002.9,      50.6,      50.6,       0.0);         ( 721775.2,
4132012.8,      50.6,      50.6,       0.0);
     ( 721752.3, 4132022.6,      50.6,      50.6,       0.0);         ( 721729.3,
4132032.5,      50.5,      50.5,       0.0);
     ( 721706.3, 4132042.4,      50.3,      50.3,       0.0);         ( 721683.3,
4132052.2,      50.3,      50.3,       0.0);
     ( 721660.4, 4132062.1,      50.3,      50.3,       0.0);         ( 721637.4,
4132071.9,      50.3,      50.3,       0.0);
     ( 721841.2, 4132144.7,      50.6,      50.6,       0.0);         ( 721864.2,
4132134.9,      50.5,      50.5,       0.0);
     ( 721887.1, 4132125.1,      50.3,      50.3,       0.0);         ( 721910.1,
4132115.2,      50.3,      50.3,       0.0);
     ( 721933.1, 4132105.4,      50.3,      50.3,       0.0);         ( 721956.1,
4132095.6,      50.3,      50.3,       0.0);
     ( 721979.1, 4132085.7,      50.3,      50.3,       0.0);         ( 722002.1,
4132075.9,      50.3,      50.3,       0.0);
     ( 722025.1, 4132066.1,      50.3,      50.3,       0.0);         ( 722048.0,
4132056.2,      50.3,      50.3,       0.0);
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(722071.0, 4132046.4, 50.3, 50.3, 0.0); (722094.0, 4132036.6, 50.3, 50.3, 0.0);
(722117.0, 4132026.7, 50.3, 50.3, 0.0); (722140.0, 4132016.9, 50.3, 50.3, 0.0);
(722163.0, 4132007.1, 50.3, 50.3, 0.0); (722186.0, 4131997.2, 50.3, 50.3, 0.0);
(722208.9, 4131987.4, 50.3, 50.3, 0.0); (722231.9, 4131977.6, 50.3, 50.3, 0.0);
(722254.9, 4131967.8, 50.3, 50.3, 0.0); (722277.9, 4131957.9, 50.3, 50.3, 0.0);
(722300.9, 4131948.1, 50.3, 50.3, 0.0); (722323.9, 4131938.3, 50.3, 50.3, 0.0);
(722346.9, 4131928.4, 50.3, 50.3, 0.0); (722369.8, 4131918.6, 50.3, 50.3, 0.0);
(722392.8, 4131908.8, 50.3, 50.3, 0.0); (722415.8, 4131898.9, 50.3, 50.3, 0.0);
(722438.8, 4131889.1, 50.3, 50.3, 0.0); (722461.8, 4131879.3, 50.3, 50.3, 0.0);
(722484.8, 4131869.4, 50.3, 50.3, 0.0); (722507.8, 4131859.6, 50.3, 50.3, 0.0);
(722530.7, 4131849.8, 50.5, 50.5, 0.0); (722553.7, 4131839.9, 50.6, 50.6, 0.0);
(722576.7, 4131830.1, 50.6, 50.6, 0.0); (722599.7, 4131820.3, 50.6, 50.6, 0.0);
(722622.7, 4131810.4, 50.6, 50.6, 0.0); (722645.7, 4131800.6, 50.6, 50.6, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722668.7, 4131790.8, 50.6, 50.6, 0.0); (722691.6, 4131780.9, 50.6, 50.6, 0.0);
(722714.6, 4131771.1, 50.6, 50.6, 0.0); (722737.6, 4131761.3, 50.7, 50.7, 0.0);
(722760.6, 4131751.5, 50.9, 50.9, 0.0); (722783.6, 4131741.6, 50.9, 50.9, 0.0);
(722806.6, 4131731.8, 50.9, 50.9, 0.0); (722829.6, 4131722.0, 50.9, 50.9, 0.0);
(722852.5, 4131712.1, 50.9, 50.9, 0.0); (722875.5, 4131702.3, 50.9, 50.9, 0.0);
(722898.5, 4131692.5, 50.9, 50.9, 0.0); (722921.5, 4131682.6, 50.9, 50.9, 0.0);

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     ( 722944.5, 4131672.8,      51.0,      51.0,       0.0);         ( 722967.5,
4131663.0,      51.1,      51.1,       0.0);
     ( 722990.5, 4131653.1,      51.2,      51.2,       0.0);         ( 723013.4,
4131643.3,      51.2,      51.2,       0.0);
     ( 723036.4, 4131633.5,      51.1,      51.1,       0.0);         ( 723059.4,
4131623.6,      51.2,      51.2,       0.0);
     ( 723082.4, 4131613.8,      51.2,      51.2,       0.0);         ( 723105.4,
4131604.0,      51.3,      51.3,       0.0);
     ( 723128.4, 4131594.1,      51.3,      51.3,       0.0);         ( 723151.4,
4131584.3,      51.3,      51.3,       0.0);
     ( 723174.3, 4131574.5,      51.4,      51.4,       0.0);         ( 723197.3,
4131564.7,      51.2,      51.2,       0.0);
     ( 723220.3, 4131554.8,      51.0,      51.0,       0.0);         ( 723243.3,
4131545.0,      50.9,      50.9,       0.0);
     ( 723266.3, 4131535.2,      50.9,      50.9,       0.0);         ( 723289.3,
4131525.3,      51.2,      51.2,       0.0);
     ( 723316.8, 4131622.3,      51.5,      51.5,       0.0);         ( 723293.8,
4131632.2,      51.5,      51.5,       0.0);
     ( 723270.8, 4131642.0,      51.3,      51.3,       0.0);         ( 723247.8,
4131651.8,      51.2,      51.2,       0.0);
     ( 723224.8, 4131661.7,      51.3,      51.3,       0.0);         ( 723201.8,
4131671.5,      51.5,      51.5,       0.0);
     ( 723178.8, 4131681.3,      51.5,      51.5,       0.0);         ( 723155.9,
4131691.2,      51.5,      51.5,       0.0);
     ( 723132.9, 4131701.0,      51.5,      51.5,       0.0);         ( 723109.9,
4131710.8,      51.5,      51.5,       0.0);
     ( 723086.9, 4131720.6,      51.2,      51.2,       0.0);         ( 723063.9,
4131730.5,      51.2,      51.2,       0.0);
     ( 723040.9, 4131740.3,      51.2,      51.2,       0.0);         ( 723017.9,
4131750.1,      51.2,      51.2,       0.0);
     ( 722995.0, 4131760.0,      51.2,      51.2,       0.0);         ( 722972.0,
4131769.8,      51.2,      51.2,       0.0);
     ( 722949.0, 4131779.6,      51.2,      51.2,       0.0);         ( 722926.0,
4131789.5,      51.2,      51.2,       0.0);
     ( 722903.0, 4131799.3,      51.2,      51.2,       0.0);         ( 722880.0,
4131809.1,      51.2,      51.2,       0.0);
     ( 722857.0, 4131819.0,      51.2,      51.2,       0.0);         ( 722834.1,
4131828.8,      51.1,      51.1,       0.0);
     ( 722811.1, 4131838.6,      50.9,      50.9,       0.0);         ( 722788.1,
4131848.5,      50.9,      50.9,       0.0);
     ( 722765.1, 4131858.3,      50.9,      50.9,       0.0);         ( 722742.1,
4131868.1,      50.9,      50.9,       0.0);
     ( 722719.1, 4131878.0,      50.8,      50.8,       0.0);         ( 722696.1,
4131887.8,      50.6,      50.6,       0.0);
     ( 722673.2, 4131897.6,      50.6,      50.6,       0.0);         ( 722650.2,
4131907.4,      50.6,      50.6,       0.0);
     ( 722627.2, 4131917.3,      50.6,      50.6,       0.0);         ( 722604.2,
4131927.1,      50.6,      50.6,       0.0);
     ( 722581.2, 4131936.9,      50.6,      50.6,       0.0);         ( 722558.2,
4131946.8,      50.6,      50.6,       0.0);
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     ( 722535.2, 4131956.6,      50.5,      50.5,       0.0);         ( 722512.3,
4131966.4,      50.3,      50.3,       0.0);
     ( 722489.3, 4131976.3,      50.3,      50.3,       0.0);         ( 722466.3,
4131986.1,      50.3,      50.3,       0.0);
     ( 722443.3, 4131995.9,      50.3,      50.3,       0.0);         ( 722420.3,
4132005.8,      50.3,      50.3,       0.0);
     ( 722397.3, 4132015.6,      50.3,      50.3,       0.0);         ( 722374.3,
4132025.4,      50.3,      50.3,       0.0);
     ( 722351.4, 4132035.3,      50.3,      50.3,       0.0);         ( 722328.4,
4132045.1,      50.3,      50.3,       0.0);
     ( 722305.4, 4132054.9,      50.3,      50.3,       0.0);         ( 722282.4,
4132064.8,      50.3,      50.3,       0.0);
     ( 722259.4, 4132074.6,      50.3,      50.3,       0.0);         ( 722236.4,
4132084.4,      50.3,      50.3,       0.0);
     ( 722213.4, 4132094.2,      50.3,      50.3,       0.0);         ( 722190.5,
4132104.1,      50.3,      50.3,       0.0);
     ( 722167.5, 4132113.9,      50.3,      50.3,       0.0);         ( 722144.5,
4132123.8,      50.3,      50.3,       0.0);
     ( 722121.5, 4132133.6,      50.3,      50.3,       0.0);         ( 722098.5,
4132143.4,      50.3,      50.3,       0.0);
     ( 722075.5, 4132153.2,      50.3,      50.3,       0.0);         ( 722052.5,
4132163.1,      50.3,      50.3,       0.0);
     ( 722029.6, 4132172.9,      50.3,      50.3,       0.0);         ( 722006.6,
4132182.7,      50.3,      50.3,       0.0);
     ( 721983.6, 4132192.6,      50.3,      50.3,       0.0);         ( 721960.6,
4132202.4,      50.4,      50.4,       0.0);
     ( 721937.6, 4132212.2,      50.6,      50.6,       0.0);         ( 721914.6,
4132222.1,      50.6,      50.6,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 721891.6, 4132231.9,      50.6,      50.6,       0.0);         ( 721853.4,
4132064.3,      50.6,      50.6,       0.0);
     ( 721876.4, 4132054.5,      50.4,      50.4,       0.0);         ( 721899.3,
4132044.6,      50.3,      50.3,       0.0);
     ( 721922.3, 4132034.8,      50.3,      50.3,       0.0);         ( 721945.3,
4132024.9,      50.3,      50.3,       0.0);
     ( 721968.3, 4132015.1,      50.3,      50.3,       0.0);         ( 721991.3,
4132005.3,      50.3,      50.3,       0.0);
     ( 722014.3, 4131995.4,      50.3,      50.3,       0.0);         ( 722037.2,
4131985.6,      50.3,      50.3,       0.0);
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     ( 722060.2, 4131975.8,      50.3,      50.3,       0.0);         ( 722083.2,
4131965.9,      50.3,      50.3,       0.0);
     ( 722106.2, 4131956.1,      50.3,      50.3,       0.0);         ( 722129.2,
4131946.2,      50.3,      50.3,       0.0);
     ( 722152.2, 4131936.4,      50.3,      50.3,       0.0);         ( 722175.1,
4131926.6,      50.3,      50.3,       0.0);
     ( 722198.1, 4131916.7,      50.3,      50.3,       0.0);         ( 722221.1,
4131906.9,      50.3,      50.3,       0.0);
     ( 722244.1, 4131897.0,      50.3,      50.3,       0.0);         ( 722267.1,
4131887.2,      50.3,      50.3,       0.0);
     ( 722290.1, 4131877.4,      50.3,      50.3,       0.0);         ( 722313.0,
4131867.5,      50.3,      50.3,       0.0);
     ( 722336.0, 4131857.7,      50.3,      50.3,       0.0);         ( 722359.0,
4131847.9,      50.3,      50.3,       0.0);
     ( 722382.0, 4131838.0,      50.3,      50.3,       0.0);         ( 722405.0,
4131828.2,      50.3,      50.3,       0.0);
     ( 722428.0, 4131818.3,      50.3,      50.3,       0.0);         ( 722450.9,
4131808.5,      50.3,      50.3,       0.0);
     ( 722473.9, 4131798.7,      50.3,      50.3,       0.0);         ( 722496.9,
4131788.8,      50.4,      50.4,       0.0);
     ( 722519.9, 4131779.0,      50.5,      50.5,       0.0);         ( 722542.9,
4131769.2,      50.6,      50.6,       0.0);
     ( 722565.9, 4131759.3,      50.6,      50.6,       0.0);         ( 722588.8,
4131749.5,      50.6,      50.6,       0.0);
     ( 722611.8, 4131739.6,      50.6,      50.6,       0.0);         ( 722634.8,
4131729.8,      50.6,      50.6,       0.0);
     ( 722657.8, 4131720.0,      50.6,      50.6,       0.0);         ( 722680.8,
4131710.1,      50.6,      50.6,       0.0);
     ( 722703.8, 4131700.3,      50.6,      50.6,       0.0);         ( 722726.7,
4131690.5,      50.6,      50.6,       0.0);
     ( 722749.7, 4131680.6,      50.9,      50.9,       0.0);         ( 722772.7,
4131670.8,      50.9,      50.9,       0.0);
     ( 722795.7, 4131660.9,      50.9,      50.9,       0.0);         ( 722818.7,
4131651.1,      50.9,      50.9,       0.0);
     ( 722841.7, 4131641.3,      50.9,      50.9,       0.0);         ( 722864.6,
4131631.4,      50.9,      50.9,       0.0);
     ( 722887.6, 4131621.6,      50.9,      50.9,       0.0);         ( 722910.6,
4131611.8,      50.9,      50.9,       0.0);
     ( 722933.6, 4131601.9,      50.9,      50.9,       0.0);         ( 722956.6,
4131592.1,      50.9,      50.9,       0.0);
     ( 722979.6, 4131582.2,      50.9,      50.9,       0.0);         ( 723002.5,
4131572.4,      50.9,      50.9,       0.0);
     ( 723025.5, 4131562.6,      50.9,      50.9,       0.0);         ( 723048.5,
4131552.7,      50.9,      50.9,       0.0);
     ( 723071.5, 4131542.9,      50.9,      50.9,       0.0);         ( 723094.5,
4131533.1,      51.0,      51.0,       0.0);
     ( 723117.4, 4131523.2,      51.2,      51.2,       0.0);         ( 723140.4,
4131513.4,      51.2,      51.2,       0.0);
     ( 723163.4, 4131503.5,      51.2,      51.2,       0.0);         ( 723186.4,
4131493.7,      51.2,      51.2,       0.0);
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     ( 723209.4, 4131483.9,      51.1,      51.1,       0.0);         ( 723232.4,
4131474.0,      50.9,      50.9,       0.0);
     ( 723255.3, 4131464.2,      50.9,      50.9,       0.0);         ( 723278.3,
4131454.3,      51.0,      51.0,       0.0);
     ( 723261.0, 4131463.9,      50.9,      50.9,       0.0);         ( 723238.0,
4131473.8,      50.9,      50.9,       0.0);
     ( 723215.0, 4131483.6,      51.1,      51.1,       0.0);         ( 723192.0,
4131493.5,      51.2,      51.2,       0.0);
     ( 723169.1, 4131503.3,      51.2,      51.2,       0.0);         ( 723146.1,
4131513.1,      51.2,      51.2,       0.0);
     ( 723123.1, 4131523.0,      51.2,      51.2,       0.0);         ( 723100.1,
4131532.8,      51.1,      51.1,       0.0);
     ( 723077.1, 4131542.6,      50.9,      50.9,       0.0);         ( 723054.2,
4131552.5,      50.9,      50.9,       0.0);
     ( 723031.2, 4131562.3,      50.9,      50.9,       0.0);         ( 723008.2,
4131572.2,      50.9,      50.9,       0.0);
     ( 722985.2, 4131582.0,      50.9,      50.9,       0.0);         ( 722962.2,
4131591.8,      50.9,      50.9,       0.0);
     ( 722939.2, 4131601.7,      50.9,      50.9,       0.0);         ( 722916.2,
4131611.5,      50.9,      50.9,       0.0);
     ( 722893.3, 4131621.3,      50.9,      50.9,       0.0);         ( 722870.3,
4131631.2,      50.9,      50.9,       0.0);
     ( 722847.3, 4131641.0,      50.9,      50.9,       0.0);         ( 722824.3,
4131650.9,      50.9,      50.9,       0.0);
     ( 722801.3, 4131660.7,      50.9,      50.9,       0.0);         ( 722778.4,
4131670.5,      50.9,      50.9,       0.0);
     ( 722755.4, 4131680.4,      50.9,      50.9,       0.0);         ( 722732.4,
4131690.2,      50.7,      50.7,       0.0);
     ( 722709.4, 4131700.0,      50.6,      50.6,       0.0);         ( 722686.4,
4131709.9,      50.6,      50.6,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 722663.4, 4131719.7,      50.6,      50.6,       0.0);         ( 722640.5,
4131729.6,      50.6,      50.6,       0.0);
     ( 722617.5, 4131739.4,      50.6,      50.6,       0.0);         ( 722594.5,
4131749.2,      50.6,      50.6,       0.0);
     ( 722571.5, 4131759.1,      50.6,      50.6,       0.0);         ( 722548.5,
4131768.9,      50.6,      50.6,       0.0);
     ( 722525.5, 4131778.8,      50.5,      50.5,       0.0);         ( 722502.6,
4131788.6,      50.4,      50.4,       0.0);
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     ( 722479.6, 4131798.4,      50.3,      50.3,       0.0);         ( 722456.6,
4131808.3,      50.3,      50.3,       0.0);
     ( 722433.6, 4131818.1,      50.3,      50.3,       0.0);         ( 722410.6,
4131827.9,      50.3,      50.3,       0.0);
     ( 722387.6, 4131837.8,      50.3,      50.3,       0.0);         ( 722364.7,
4131847.6,      50.3,      50.3,       0.0);
     ( 722341.7, 4131857.5,      50.3,      50.3,       0.0);         ( 722318.7,
4131867.3,      50.3,      50.3,       0.0);
     ( 722295.7, 4131877.1,      50.3,      50.3,       0.0);         ( 722272.7,
4131887.0,      50.3,      50.3,       0.0);
     ( 722249.7, 4131896.8,      50.3,      50.3,       0.0);         ( 722226.8,
4131906.6,      50.3,      50.3,       0.0);
     ( 722203.8, 4131916.5,      50.3,      50.3,       0.0);         ( 722180.8,
4131926.3,      50.3,      50.3,       0.0);
     ( 722157.8, 4131936.2,      50.3,      50.3,       0.0);         ( 722134.8,
4131946.0,      50.3,      50.3,       0.0);
     ( 722111.8, 4131955.8,      50.3,      50.3,       0.0);         ( 722088.9,
4131965.7,      50.3,      50.3,       0.0);
     ( 722065.9, 4131975.5,      50.3,      50.3,       0.0);         ( 722042.9,
4131985.3,      50.3,      50.3,       0.0);
     ( 722019.9, 4131995.2,      50.3,      50.3,       0.0);         ( 721996.9,
4132005.0,      50.3,      50.3,       0.0);
     ( 721973.9, 4132014.9,      50.3,      50.3,       0.0);         ( 721951.0,
4132024.7,      50.3,      50.3,       0.0);
     ( 721928.0, 4132034.5,      50.3,      50.3,       0.0);         ( 721905.0,
4132044.4,      50.3,      50.3,       0.0);
     ( 721882.0, 4132054.2,      50.3,      50.3,       0.0);         ( 721859.0,
4132064.0,      50.5,      50.5,       0.0);
     ( 722093.9, 4131295.3,      52.0,      52.0,       0.0);         ( 722116.8,
4131285.4,      52.1,      52.1,       0.0);
     ( 722139.7, 4131275.5,      52.1,      52.1,       0.0);         ( 722162.7,
4131265.5,      51.9,      51.9,       0.0);
     ( 722185.6, 4131255.6,      51.8,      51.8,       0.0);         ( 722208.6,
4131245.7,      51.9,      51.9,       0.0);
     ( 722231.5, 4131235.7,      52.1,      52.1,       0.0);         ( 722254.5,
4131225.8,      52.4,      52.4,       0.0);
     ( 722277.4, 4131215.9,      52.5,      52.5,       0.0);         ( 722300.3,
4131205.9,      52.5,      52.5,       0.0);
     ( 722323.3, 4131196.0,      52.5,      52.5,       0.0);         ( 722346.2,
4131186.1,      52.5,      52.5,       0.0);
     ( 722369.2, 4131176.1,      52.5,      52.5,       0.0);         ( 722392.1,
4131166.2,      52.4,      52.4,       0.0);
     ( 722415.1, 4131156.3,      52.5,      52.5,       0.0);         ( 722438.0,
4131146.3,      52.6,      52.6,       0.0);
     ( 722460.9, 4131136.4,      52.6,      52.6,       0.0);         ( 722483.9,
4131126.5,      52.5,      52.5,       0.0);
     ( 722506.8, 4131116.5,      52.5,      52.5,       0.0);         ( 722529.8,
4131106.6,      52.5,      52.5,       0.0);
     ( 722552.7, 4131096.7,      52.5,      52.5,       0.0);         ( 722575.7,
4131086.8,      52.5,      52.5,       0.0);
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     ( 722598.6, 4131076.8,      52.4,      52.4,       0.0);         ( 722621.5,
4131066.9,      52.4,      52.4,       0.0);
     ( 722644.5, 4131057.0,      52.5,      52.5,       0.0);         ( 722667.4,
4131047.0,      52.6,      52.6,       0.0);
     ( 722690.4, 4131037.1,      52.6,      52.6,       0.0);         ( 722713.3,
4131027.2,      52.6,      52.6,       0.0);
     ( 722736.2, 4131017.2,      52.6,      52.6,       0.0);         ( 722759.2,
4131007.3,      52.5,      52.5,       0.0);
     ( 722771.1, 4131056.6,      51.5,      51.5,       0.0);         ( 722748.2,
4131066.5,      51.4,      51.4,       0.0);
     ( 722725.2, 4131076.5,      51.5,      51.5,       0.0);         ( 722702.3,
4131086.4,      51.5,      51.5,       0.0);
     ( 722679.4, 4131096.3,      51.5,      51.5,       0.0);         ( 722656.4,
4131106.3,      51.6,      51.6,       0.0);
     ( 722633.5, 4131116.2,      51.6,      51.6,       0.0);         ( 722610.5,
4131126.1,      51.5,      51.5,       0.0);
     ( 722587.6, 4131136.1,      51.5,      51.5,       0.0);         ( 722564.6,
4131146.0,      51.5,      51.5,       0.0);
     ( 722541.7, 4131155.9,      51.6,      51.6,       0.0);         ( 722518.8,
4131165.9,      51.5,      51.5,       0.0);
     ( 722495.8, 4131175.8,      51.5,      51.5,       0.0);         ( 722472.9,
4131185.7,      51.5,      51.5,       0.0);
     ( 722449.9, 4131195.7,      51.5,      51.5,       0.0);         ( 722427.0,
4131205.6,      51.6,      51.6,       0.0);
     ( 722404.0, 4131215.5,      51.6,      51.6,       0.0);         ( 722381.1,
4131225.5,      51.6,      51.6,       0.0);
     ( 722358.2, 4131235.4,      51.7,      51.7,       0.0);         ( 722335.2,
4131245.3,      51.7,      51.7,       0.0);
     ( 722312.3, 4131255.2,      51.5,      51.5,       0.0);         ( 722289.3,
4131265.2,      51.6,      51.6,       0.0);
     ( 722266.4, 4131275.1,      51.6,      51.6,       0.0);         ( 722243.4,
4131285.0,      51.2,      51.2,       0.0);
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

```
     ( 722220.5, 4131295.0,      51.4,      51.4,       0.0);         ( 722197.6,
4131304.9,      51.4,      51.4,       0.0);
     ( 722174.6, 4131314.8,      51.4,      51.4,       0.0);         ( 722151.7,
4131324.8,      51.6,      51.6,       0.0);
     ( 722128.7, 4131334.7,      51.3,      51.3,       0.0);         ( 722148.9,
4131034.6,      52.3,      52.3,       0.0);
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     ( 722171.9, 4131024.8,      52.5,      52.5,       0.0);         ( 722194.9,
4131015.1,      52.5,      52.5,       0.0);
     ( 722218.0, 4131005.3,      52.6,      52.6,       0.0);         ( 722241.0,
4130995.6,      52.7,      52.7,       0.0);
     ( 722264.0, 4130985.8,      52.7,      52.7,       0.0);         ( 722287.0,
4130976.1,      52.8,      52.8,       0.0);
     ( 722310.0, 4130966.3,      52.8,      52.8,       0.0);         ( 722333.1,
4130956.6,      52.8,      52.8,       0.0);
     ( 722356.1, 4130946.8,      52.9,      52.9,       0.0);         ( 722379.1,
4130937.1,      52.8,      52.8,       0.0);
     ( 722402.1, 4130927.3,      52.8,      52.8,       0.0);         ( 722418.0,
4130974.9,      53.2,      53.2,       0.0);
     ( 722395.0, 4130984.7,      53.3,      53.3,       0.0);         ( 722372.0,
4130994.4,      53.2,      53.2,       0.0);
     ( 722348.9, 4131004.2,      53.2,      53.2,       0.0);         ( 722325.9,
4131013.9,      53.2,      53.2,       0.0);
     ( 722302.9, 4131023.7,      53.1,      53.1,       0.0);         ( 722279.9,
4131033.4,      53.2,      53.2,       0.0);
     ( 722256.8, 4131043.2,      53.1,      53.1,       0.0);         ( 722233.8,
4131052.9,      53.2,      53.2,       0.0);
     ( 722210.8, 4131062.6,      53.2,      53.2,       0.0);         ( 722187.8,
4131072.4,      53.0,      53.0,       0.0);
     ( 721461.3, 4131276.7,      49.0,      49.0,       0.0);         ( 721484.2,
4131266.7,      48.9,      48.9,       0.0);
     ( 721507.1, 4131256.7,      48.8,      48.8,       0.0);         ( 721530.1,
4131246.7,      48.7,      48.7,       0.0);
     ( 721553.0, 4131236.8,      48.7,      48.7,       0.0);         ( 721575.9,
4131226.8,      48.7,      48.7,       0.0);
     ( 721598.8, 4131216.8,      48.9,      48.9,       0.0);         ( 721621.7,
4131206.8,      48.9,      48.9,       0.0);
     ( 721644.7, 4131196.8,      48.8,      48.8,       0.0);         ( 721667.6,
4131186.8,      49.0,      49.0,       0.0);
     ( 721690.5, 4131176.8,      49.0,      49.0,       0.0);         ( 721713.4,
4131166.8,      49.1,      49.1,       0.0);
     ( 721736.3, 4131156.9,      49.6,      49.6,       0.0);         ( 721759.2,
4131146.9,      49.7,      49.7,       0.0);
     ( 721782.2, 4131136.9,      49.8,      49.8,       0.0);         ( 721805.1,
4131126.9,      50.1,      50.1,       0.0);
     ( 721828.0, 4131116.9,      50.3,      50.3,       0.0);         ( 721850.9,
4131106.9,      50.3,      50.3,       0.0);
     ( 721873.8, 4131096.9,      50.7,      50.7,       0.0);         ( 721896.8,
4131086.9,      50.8,      50.8,       0.0);
     ( 721903.6, 4131127.6,      51.5,      51.5,       0.0);         ( 721880.7,
4131137.6,      51.5,      51.5,       0.0);
     ( 721857.8, 4131147.6,      51.5,      51.5,       0.0);         ( 721834.9,
4131157.5,      51.4,      51.4,       0.0);
     ( 721812.0, 4131167.5,      51.3,      51.3,       0.0);         ( 721789.0,
4131177.5,      51.2,      51.2,       0.0);
     ( 721766.1, 4131187.5,      51.0,      51.0,       0.0);         ( 721743.2,
4131197.5,      50.7,      50.7,       0.0);
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     ( 721720.3, 4131207.5,      50.5,      50.5,       0.0);         ( 721697.4,
4131217.5,      50.5,      50.5,       0.0);
     ( 721674.4, 4131227.5,      50.4,      50.4,       0.0);         ( 721651.5,
4131237.4,      50.2,      50.2,       0.0);
     ( 721628.6, 4131247.4,      50.2,      50.2,       0.0);         ( 721605.7,
4131257.4,      50.2,      50.2,       0.0);
     ( 721582.8, 4131267.4,      49.8,      49.8,       0.0);         ( 721559.8,
4131277.4,      49.6,      49.6,       0.0);
     ( 721536.9, 4131287.4,      49.6,      49.6,       0.0);         ( 721514.0,
4131297.4,      49.8,      49.8,       0.0);
     ( 721491.1, 4131307.3,      50.1,      50.1,       0.0);         ( 721412.4,
4131178.3,      48.4,      48.4,       0.0);
     ( 721435.4, 4131168.4,      48.2,      48.2,       0.0);         ( 721458.3,
4131158.5,      48.2,      48.2,       0.0);
     ( 721481.3, 4131148.6,      48.2,      48.2,       0.0);         ( 721504.2,
4131138.7,      48.3,      48.3,       0.0);
     ( 721527.2, 4131128.7,      48.5,      48.5,       0.0);         ( 721550.1,
4131118.8,      48.5,      48.5,       0.0);
     ( 721573.1, 4131108.9,      48.5,      48.5,       0.0);         ( 721596.0,
4131099.0,      48.5,      48.5,       0.0);
     ( 721619.0, 4131089.1,      48.5,      48.5,       0.0);         ( 721641.9,
4131079.2,      48.5,      48.5,       0.0);
     ( 721664.9, 4131069.3,      48.4,      48.4,       0.0);         ( 721687.8,
4131059.3,      48.3,      48.3,       0.0);
     ( 721710.8, 4131049.4,      48.2,      48.2,       0.0);         ( 721733.7,
4131039.5,      48.2,      48.2,       0.0);
     ( 721756.7, 4131029.6,      48.4,      48.4,       0.0);         ( 721779.6,
4131019.7,      48.5,      48.5,       0.0);
     ( 721802.6, 4131009.8,      48.9,      48.9,       0.0);         ( 721825.5,
4130999.9,      49.1,      49.1,       0.0);
     ( 721848.5, 4130989.9,      49.3,      49.3,       0.0);         ( 721871.4,
4130980.0,      49.4,      49.4,       0.0);
     ( 721894.4, 4130970.1,      49.5,      49.5,       0.0);         ( 721917.3,
4130960.2,      49.9,      49.9,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                        (METERS)

     ( 721940.3, 4130950.3,      49.7,      49.7,       0.0);         ( 721963.2,
4130940.4,      49.9,      49.9,       0.0);
     ( 721986.2, 4130930.5,      49.9,      49.9,       0.0);         ( 722009.1,
4130920.6,      49.8,      49.8,       0.0);
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     ( 722032.1, 4130910.6,      50.3,      50.3,       0.0);         ( 722055.0,
4130900.7,      50.3,      50.3,       0.0);
     ( 722078.0, 4130890.8,      50.6,      50.6,       0.0);         ( 722100.9,
4130880.9,      50.9,      50.9,       0.0);
     ( 722123.9, 4130871.0,      50.9,      50.9,       0.0);         ( 722146.8,
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     ( 722169.8, 4130851.2,      51.2,      51.2,       0.0);         ( 722192.7,
4130841.2,      51.3,      51.3,       0.0);
     ( 722215.7, 4130831.3,      51.2,      51.2,       0.0);         ( 722238.6,
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     ( 722261.6, 4130811.5,      51.4,      51.4,       0.0);         ( 722284.5,
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     ( 722307.5, 4130791.7,      51.4,      51.4,       0.0);         ( 722330.4,
4130781.8,      51.3,      51.3,       0.0);
     ( 722374.0, 4130839.2,      52.2,      52.2,       0.0);         ( 722351.1,
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     ( 722328.1, 4130859.0,      52.3,      52.3,       0.0);         ( 722305.2,
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     ( 722282.2, 4130878.8,      52.0,      52.0,       0.0);         ( 722259.3,
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     ( 722236.3, 4130898.7,      51.8,      51.8,       0.0);         ( 722213.4,
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     ( 722190.4, 4130918.5,      51.8,      51.8,       0.0);         ( 722167.5,
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     ( 722144.5, 4130938.3,      51.5,      51.5,       0.0);         ( 722121.6,
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     ( 721960.9, 4131017.6,      50.3,      50.3,       0.0);         ( 721938.0,
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     ( 721915.0, 4131037.5,      50.1,      50.1,       0.0);         ( 721892.1,
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     ( 721869.1, 4131057.3,      50.1,      50.1,       0.0);         ( 721846.2,
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     ( 721823.2, 4131077.1,      49.7,      49.7,       0.0);         ( 721800.3,
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     ( 721777.3, 4131096.9,      49.3,      49.3,       0.0);         ( 721754.4,
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     ( 721731.4, 4131116.8,      48.7,      48.7,       0.0);         ( 721708.5,
4131126.7,      48.5,      48.5,       0.0);
     ( 721685.5, 4131136.6,      48.3,      48.3,       0.0);         ( 721662.6,
4131146.5,      48.3,      48.3,       0.0);
     ( 721639.6, 4131156.4,      48.3,      48.3,       0.0);         ( 721616.7,
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     ( 721593.7, 4131176.2,      48.3,      48.3,       0.0);         ( 721570.8,
4131186.2,      48.2,      48.2,       0.0);
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(721501.9, 4131215.9, 48.4, 48.4, 0.0); (721479.0,
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(721456.0, 4131235.7, 48.6, 48.6, 0.0); (721024.6,
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(721997.4, 4131808.7, 50.3, 50.3, 0.0); (722020.4,
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(722089.3, 4131769.3, 50.3, 50.3, 0.0); (722112.3,
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(722135.2, 4131749.6, 50.3, 50.3, 0.0); (722158.2,
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(722181.2, 4131729.8, 50.3, 50.3, 0.0); (722204.2,
4131720.0, 50.3, 50.3, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722227.2, 4131710.1, 50.3, 50.3, 0.0); (722250.1,
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     ( 722319.1, 4131670.7,      50.3,      50.3,       0.0);         ( 722342.0,
4131660.9,      50.3,      50.3,       0.0);
     ( 722365.0, 4131651.0,      50.3,      50.3,       0.0);         ( 722388.0,
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     ( 722411.0, 4131631.3,      50.3,      50.3,       0.0);         ( 722433.9,
4131621.4,      50.3,      50.3,       0.0);
     ( 722456.9, 4131611.6,      50.3,      50.3,       0.0);         ( 722479.9,
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     ( 722502.9, 4131591.9,      50.6,      50.6,       0.0);         ( 722525.8,
4131582.0,      50.6,      50.6,       0.0);
     ( 722548.8, 4131572.2,      50.6,      50.6,       0.0);         ( 722571.8,
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     ( 722594.8, 4131552.4,      50.6,      50.6,       0.0);         ( 722617.7,
4131542.6,      50.6,      50.6,       0.0);
     ( 722640.7, 4131532.7,      50.6,      50.6,       0.0);         ( 722663.7,
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     ( 722686.7, 4131513.0,      50.6,      50.6,       0.0);         ( 722709.6,
4131503.2,      50.6,      50.6,       0.0);
     ( 722732.6, 4131493.3,      50.6,      50.6,       0.0);         ( 722755.6,
4131483.5,      50.6,      50.6,       0.0);
     ( 722778.6, 4131473.6,      50.6,      50.6,       0.0);         ( 722801.5,
4131463.8,      50.6,      50.6,       0.0);
     ( 722824.5, 4131453.9,      50.6,      50.6,       0.0);         ( 722847.5,
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     ( 722870.5, 4131434.2,      50.6,      50.6,       0.0);         ( 722893.4,
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     ( 722916.4, 4131414.5,      50.6,      50.6,       0.0);         ( 722939.4,
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     ( 722962.4, 4131394.8,      50.9,      50.9,       0.0);         ( 722985.3,
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     ( 723008.3, 4131375.1,      50.9,      50.9,       0.0);         ( 723031.3,
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     ( 723054.3, 4131355.3,      50.9,      50.9,       0.0);         ( 723077.2,
4131345.5,      50.9,      50.9,       0.0);
     ( 723100.2, 4131335.6,      50.9,      50.9,       0.0);         ( 723123.2,
4131325.8,      50.9,      50.9,       0.0);
     ( 723146.2, 4131315.9,      50.9,      50.9,       0.0);         ( 723169.1,
4131306.1,      50.9,      50.9,       0.0);
     ( 723192.1, 4131296.2,      50.9,      50.9,       0.0);         ( 723267.0,
4131369.8,      51.0,      51.0,       0.0);
     ( 723245.7, 4131382.0,      50.9,      50.9,       0.0);         ( 723222.7,
4131391.9,      51.0,      51.0,       0.0);
     ( 723199.7, 4131401.8,      51.2,      51.2,       0.0);         ( 723176.7,
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     ( 723153.8, 4131421.5,      51.1,      51.1,       0.0);         ( 723130.8,
4131431.3,      51.2,      51.2,       0.0);
     ( 723107.8, 4131441.2,      51.1,      51.1,       0.0);         ( 723084.8,
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     ( 723015.9, 4131480.6,      50.9,      50.9,       0.0);         ( 722992.9,
4131490.5,      50.9,      50.9,       0.0);
     ( 722970.0, 4131500.3,      50.9,      50.9,       0.0);         ( 722947.0,
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     ( 722924.0, 4131520.0,      50.9,      50.9,       0.0);         ( 722901.0,
4131529.9,      50.9,      50.9,       0.0);
     ( 722878.1, 4131539.7,      50.9,      50.9,       0.0);         ( 722855.1,
4131549.6,      50.9,      50.9,       0.0);
     ( 722832.1, 4131559.4,      50.9,      50.9,       0.0);         ( 722809.1,
4131569.3,      50.9,      50.9,       0.0);
     ( 722786.2, 4131579.2,      50.9,      50.9,       0.0);         ( 722763.2,
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     ( 722740.2, 4131598.9,      50.8,      50.8,       0.0);         ( 722717.2,
4131608.7,      50.8,      50.8,       0.0);
     ( 722694.3, 4131618.6,      50.6,      50.6,       0.0);         ( 722671.3,
4131628.4,      50.6,      50.6,       0.0);
     ( 722648.3, 4131638.3,      50.6,      50.6,       0.0);         ( 722625.3,
4131648.1,      50.6,      50.6,       0.0);
     ( 722602.4, 4131658.0,      50.6,      50.6,       0.0);         ( 722579.4,
4131667.9,      50.6,      50.6,       0.0);
     ( 722556.4, 4131677.7,      50.6,      50.6,       0.0);         ( 722533.4,
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     ( 722510.5, 4131697.4,      50.6,      50.6,       0.0);         ( 722487.5,
4131707.3,      50.3,      50.3,       0.0);
     ( 722464.5, 4131717.1,      50.3,      50.3,       0.0);         ( 722441.5,
4131727.0,      50.3,      50.3,       0.0);
     ( 722418.6, 4131736.8,      50.3,      50.3,       0.0);         ( 722395.6,
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     ( 722372.6, 4131756.5,      50.3,      50.3,       0.0);         ( 722349.6,
4131766.4,      50.3,      50.3,       0.0);
     ( 722326.7, 4131776.3,      50.3,      50.3,       0.0);         ( 722303.7,
4131786.1,      50.3,      50.3,       0.0);
     ( 722280.7, 4131796.0,      50.3,      50.3,       0.0);         ( 722257.7,
4131805.8,      50.3,      50.3,       0.0);
     ( 722234.8, 4131815.7,      50.3,      50.3,       0.0);         ( 722211.8,
4131825.5,      50.3,      50.3,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                    PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                             (METERS)
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     ( 722188.8, 4131835.4,      50.3,      50.3,       0.0);         ( 722165.8,
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     ( 722142.8, 4131855.1,      50.3,      50.3,       0.0);         ( 722119.9,
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     ( 722096.9, 4131874.8,      50.3,      50.3,       0.0);         ( 722073.9,
4131884.7,      50.3,      50.3,       0.0);
     ( 722050.9, 4131894.5,      50.3,      50.3,       0.0);         ( 722028.0,
4131904.4,      50.3,      50.3,       0.0);
     ( 722005.0, 4131914.2,      50.3,      50.3,       0.0);         ( 721982.0,
4131924.1,      50.3,      50.3,       0.0);
     ( 721959.0, 4131933.9,      50.3,      50.3,       0.0);         ( 721936.1,
4131943.8,      50.3,      50.3,       0.0);
     ( 721913.1, 4131953.7,      50.3,      50.3,       0.0);         ( 721890.1,
4131963.5,      50.3,      50.3,       0.0);
     ( 721867.1, 4131973.4,      50.3,      50.3,       0.0);         ( 721844.2,
4131983.2,      50.3,      50.3,       0.0);
     ( 721821.2, 4131993.1,      50.5,      50.5,       0.0);         ( 721798.2,
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     ( 721775.2, 4132012.8,      50.6,      50.6,       0.0);         ( 721752.3,
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     ( 721729.3, 4132032.5,      50.5,      50.5,       0.0);         ( 721706.3,
4132042.4,      50.3,      50.3,       0.0);
     ( 721683.3, 4132052.2,      50.3,      50.3,       0.0);         ( 721660.4,
4132062.1,      50.3,      50.3,       0.0);
     ( 721637.4, 4132071.9,      50.3,      50.3,       0.0);         ( 721841.2,
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     ( 721864.2, 4132134.9,      50.5,      50.5,       0.0);         ( 721887.1,
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     ( 721956.1, 4132095.6,      50.3,      50.3,       0.0);         ( 721979.1,
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     ( 722002.1, 4132075.9,      50.3,      50.3,       0.0);         ( 722025.1,
4132066.1,      50.3,      50.3,       0.0);
     ( 722048.0, 4132056.2,      50.3,      50.3,       0.0);         ( 722071.0,
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     ( 722094.0, 4132036.6,      50.3,      50.3,       0.0);         ( 722117.0,
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     ( 722140.0, 4132016.9,      50.3,      50.3,       0.0);         ( 722163.0,
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     ( 722231.9, 4131977.6,      50.3,      50.3,       0.0);         ( 722254.9,
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     ( 722599.7, 4131820.3,      50.6,      50.6,       0.0);         ( 722622.7,
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     ( 722645.7, 4131800.6,      50.6,      50.6,       0.0);         ( 722668.7,
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     ( 722691.6, 4131780.9,      50.6,      50.6,       0.0);         ( 722714.6,
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     ( 722829.6, 4131722.0,      50.9,      50.9,       0.0);         ( 722852.5,
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     ( 722875.5, 4131702.3,      50.9,      50.9,       0.0);         ( 722898.5,
4131692.5,      50.9,      50.9,       0.0);
     ( 722921.5, 4131682.6,      50.9,      50.9,       0.0);         ( 722944.5,
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     ( 722967.5, 4131663.0,      51.1,      51.1,       0.0);         ( 722990.5,
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     ( 723105.4, 4131604.0,      51.3,      51.3,       0.0);         ( 723128.4,
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4131554.8,      51.0,      51.0,       0.0);
     ( 723243.3, 4131545.0,      50.9,      50.9,       0.0);         ( 723266.3,
4131535.2,      50.9,      50.9,       0.0);
     ( 723289.3, 4131525.3,      51.2,      51.2,       0.0);         ( 723316.8,
4131622.3,      51.5,      51.5,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***        10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
```

(METERS)

(723293.8, 4131632.2, 51.5, 51.5, 0.0); (723270.8, 4131642.0, 51.3, 51.3, 0.0);
(723247.8, 4131651.8, 51.2, 51.2, 0.0); (723224.8, 4131661.7, 51.3, 51.3, 0.0);
(723201.8, 4131671.5, 51.5, 51.5, 0.0); (723178.8, 4131681.3, 51.5, 51.5, 0.0);
(723155.9, 4131691.2, 51.5, 51.5, 0.0); (723132.9, 4131701.0, 51.5, 51.5, 0.0);
(723109.9, 4131710.8, 51.5, 51.5, 0.0); (723086.9, 4131720.6, 51.2, 51.2, 0.0);
(723063.9, 4131730.5, 51.2, 51.2, 0.0); (723040.9, 4131740.3, 51.2, 51.2, 0.0);
(723017.9, 4131750.1, 51.2, 51.2, 0.0); (722995.0, 4131760.0, 51.2, 51.2, 0.0);
(722972.0, 4131769.8, 51.2, 51.2, 0.0); (722949.0, 4131779.6, 51.2, 51.2, 0.0);
(722926.0, 4131789.5, 51.2, 51.2, 0.0); (722903.0, 4131799.3, 51.2, 51.2, 0.0);
(722880.0, 4131809.1, 51.2, 51.2, 0.0); (722857.0, 4131819.0, 51.2, 51.2, 0.0);
(722834.1, 4131828.8, 51.1, 51.1, 0.0); (722811.1, 4131838.6, 50.9, 50.9, 0.0);
(722788.1, 4131848.5, 50.9, 50.9, 0.0); (722765.1, 4131858.3, 50.9, 50.9, 0.0);
(722742.1, 4131868.1, 50.9, 50.9, 0.0); (722719.1, 4131878.0, 50.8, 50.8, 0.0);
(722696.1, 4131887.8, 50.6, 50.6, 0.0); (722673.2, 4131897.6, 50.6, 50.6, 0.0);
(722650.2, 4131907.4, 50.6, 50.6, 0.0); (722627.2, 4131917.3, 50.6, 50.6, 0.0);
(722604.2, 4131927.1, 50.6, 50.6, 0.0); (722581.2, 4131936.9, 50.6, 50.6, 0.0);
(722558.2, 4131946.8, 50.6, 50.6, 0.0); (722535.2, 4131956.6, 50.5, 50.5, 0.0);
(722512.3, 4131966.4, 50.3, 50.3, 0.0); (722489.3, 4131976.3, 50.3, 50.3, 0.0);
(722466.3, 4131986.1, 50.3, 50.3, 0.0); (722443.3, 4131995.9, 50.3, 50.3, 0.0);
(722420.3, 4132005.8, 50.3, 50.3, 0.0); (722397.3, 4132015.6, 50.3, 50.3, 0.0);
(722374.3, 4132025.4, 50.3, 50.3, 0.0); (722351.4, 4132035.3, 50.3, 50.3, 0.0);
(722328.4, 4132045.1, 50.3, 50.3, 0.0); (722305.4, 4132054.9, 50.3, 50.3, 0.0);
(722282.4, 4132064.8, 50.3, 50.3, 0.0); (722259.4, 4132074.6, 50.3, 50.3, 0.0);
(722236.4, 4132084.4, 50.3, 50.3, 0.0); (722213.4, 4132094.2, 50.3, 50.3, 0.0);

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     ( 722190.5, 4132104.1,      50.3,      50.3,       0.0);         ( 722167.5,
4132113.9,      50.3,      50.3,       0.0);
     ( 722144.5, 4132123.8,      50.3,      50.3,       0.0);         ( 722121.5,
4132133.6,      50.3,      50.3,       0.0);
     ( 722098.5, 4132143.4,      50.3,      50.3,       0.0);         ( 722075.5,
4132153.2,      50.3,      50.3,       0.0);
     ( 722052.5, 4132163.1,      50.3,      50.3,       0.0);         ( 722029.6,
4132172.9,      50.3,      50.3,       0.0);
     ( 722006.6, 4132182.7,      50.3,      50.3,       0.0);         ( 721983.6,
4132192.6,      50.3,      50.3,       0.0);
     ( 721960.6, 4132202.4,      50.4,      50.4,       0.0);         ( 721937.6,
4132212.2,      50.6,      50.6,       0.0);
     ( 721914.6, 4132222.1,      50.6,      50.6,       0.0);         ( 721891.6,
4132231.9,      50.6,      50.6,       0.0);
     ( 721853.4, 4132064.3,      50.6,      50.6,       0.0);         ( 721876.4,
4132054.5,      50.4,      50.4,       0.0);
     ( 721899.3, 4132044.6,      50.3,      50.3,       0.0);         ( 721922.3,
4132034.8,      50.3,      50.3,       0.0);
     ( 721945.3, 4132024.9,      50.3,      50.3,       0.0);         ( 721968.3,
4132015.1,      50.3,      50.3,       0.0);
     ( 721991.3, 4132005.3,      50.3,      50.3,       0.0);         ( 722014.3,
4131995.4,      50.3,      50.3,       0.0);
     ( 722037.2, 4131985.6,      50.3,      50.3,       0.0);         ( 722060.2,
4131975.8,      50.3,      50.3,       0.0);
     ( 722083.2, 4131965.9,      50.3,      50.3,       0.0);         ( 722106.2,
4131956.1,      50.3,      50.3,       0.0);
     ( 722129.2, 4131946.2,      50.3,      50.3,       0.0);         ( 722152.2,
4131936.4,      50.3,      50.3,       0.0);
     ( 722175.1, 4131926.6,      50.3,      50.3,       0.0);         ( 722198.1,
4131916.7,      50.3,      50.3,       0.0);
     ( 722221.1, 4131906.9,      50.3,      50.3,       0.0);         ( 722244.1,
4131897.0,      50.3,      50.3,       0.0);
     ( 722267.1, 4131887.2,      50.3,      50.3,       0.0);         ( 722290.1,
4131877.4,      50.3,      50.3,       0.0);
     ( 722313.0, 4131867.5,      50.3,      50.3,       0.0);         ( 722336.0,
4131857.7,      50.3,      50.3,       0.0);
     ( 722359.0, 4131847.9,      50.3,      50.3,       0.0);         ( 722382.0,
4131838.0,      50.3,      50.3,       0.0);
     ( 722405.0, 4131828.2,      50.3,      50.3,       0.0);         ( 722428.0,
4131818.3,      50.3,      50.3,       0.0);
     ( 722450.9, 4131808.5,      50.3,      50.3,       0.0);         ( 722473.9,
4131798.7,      50.3,      50.3,       0.0);
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722496.9, 4131788.8, 50.4, 50.4, 0.0); (722519.9, 4131779.0, 50.5, 50.5, 0.0);
(722542.9, 4131769.2, 50.6, 50.6, 0.0); (722565.9, 4131759.3, 50.6, 50.6, 0.0);
(722588.8, 4131749.5, 50.6, 50.6, 0.0); (722611.8, 4131739.6, 50.6, 50.6, 0.0);
(722634.8, 4131729.8, 50.6, 50.6, 0.0); (722657.8, 4131720.0, 50.6, 50.6, 0.0);
(722680.8, 4131710.1, 50.6, 50.6, 0.0); (722703.8, 4131700.3, 50.6, 50.6, 0.0);
(722726.7, 4131690.5, 50.6, 50.6, 0.0); (722749.7, 4131680.6, 50.9, 50.9, 0.0);
(722772.7, 4131670.8, 50.9, 50.9, 0.0); (722795.7, 4131660.9, 50.9, 50.9, 0.0);
(722818.7, 4131651.1, 50.9, 50.9, 0.0); (722841.7, 4131641.3, 50.9, 50.9, 0.0);
(722864.6, 4131631.4, 50.9, 50.9, 0.0); (722887.6, 4131621.6, 50.9, 50.9, 0.0);
(722910.6, 4131611.8, 50.9, 50.9, 0.0); (722933.6, 4131601.9, 50.9, 50.9, 0.0);
(722956.6, 4131592.1, 50.9, 50.9, 0.0); (722979.6, 4131582.2, 50.9, 50.9, 0.0);
(723002.5, 4131572.4, 50.9, 50.9, 0.0); (723025.5, 4131562.6, 50.9, 50.9, 0.0);
(723048.5, 4131552.7, 50.9, 50.9, 0.0); (723071.5, 4131542.9, 50.9, 50.9, 0.0);
(723094.5, 4131533.1, 51.0, 51.0, 0.0); (723117.4, 4131523.2, 51.2, 51.2, 0.0);
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(723186.4, 4131493.7, 51.2, 51.2, 0.0); (723209.4, 4131483.9, 51.1, 51.1, 0.0);
(723232.4, 4131474.0, 50.9, 50.9, 0.0); (723255.3, 4131464.2, 50.9, 50.9, 0.0);
(723278.3, 4131454.3, 51.0, 51.0, 0.0); (723261.0, 4131463.9, 50.9, 50.9, 0.0);
(723238.0, 4131473.8, 50.9, 50.9, 0.0); (723215.0, 4131483.6, 51.1, 51.1, 0.0);
(723192.0, 4131493.5, 51.2, 51.2, 0.0); (723169.1, 4131503.3, 51.2, 51.2, 0.0);
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(723100.1, 4131532.8, 51.1, 51.1, 0.0); (723077.1, 4131542.6, 50.9, 50.9, 0.0);
(723054.2, 4131552.5, 50.9, 50.9, 0.0); (723031.2, 4131562.3, 50.9, 50.9, 0.0);

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     ( 723008.2, 4131572.2,      50.9,      50.9,       0.0);         ( 722985.2,
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4131601.7,      50.9,      50.9,       0.0);
     ( 722916.2, 4131611.5,      50.9,      50.9,       0.0);         ( 722893.3,
4131621.3,      50.9,      50.9,       0.0);
     ( 722870.3, 4131631.2,      50.9,      50.9,       0.0);         ( 722847.3,
4131641.0,      50.9,      50.9,       0.0);
     ( 722824.3, 4131650.9,      50.9,      50.9,       0.0);         ( 722801.3,
4131660.7,      50.9,      50.9,       0.0);
     ( 722778.4, 4131670.5,      50.9,      50.9,       0.0);         ( 722755.4,
4131680.4,      50.9,      50.9,       0.0);
     ( 722732.4, 4131690.2,      50.7,      50.7,       0.0);         ( 722709.4,
4131700.0,      50.6,      50.6,       0.0);
     ( 722686.4, 4131709.9,      50.6,      50.6,       0.0);         ( 722663.4,
4131719.7,      50.6,      50.6,       0.0);
     ( 722640.5, 4131729.6,      50.6,      50.6,       0.0);         ( 722617.5,
4131739.4,      50.6,      50.6,       0.0);
     ( 722594.5, 4131749.2,      50.6,      50.6,       0.0);         ( 722571.5,
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     ( 722548.5, 4131768.9,      50.6,      50.6,       0.0);         ( 722525.5,
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     ( 722502.6, 4131788.6,      50.4,      50.4,       0.0);         ( 722479.6,
4131798.4,      50.3,      50.3,       0.0);
     ( 722456.6, 4131808.3,      50.3,      50.3,       0.0);         ( 722433.6,
4131818.1,      50.3,      50.3,       0.0);
     ( 722410.6, 4131827.9,      50.3,      50.3,       0.0);         ( 722387.6,
4131837.8,      50.3,      50.3,       0.0);
     ( 722364.7, 4131847.6,      50.3,      50.3,       0.0);         ( 722341.7,
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     ( 722318.7, 4131867.3,      50.3,      50.3,       0.0);         ( 722295.7,
4131877.1,      50.3,      50.3,       0.0);
     ( 722272.7, 4131887.0,      50.3,      50.3,       0.0);         ( 722249.7,
4131896.8,      50.3,      50.3,       0.0);
     ( 722226.8, 4131906.6,      50.3,      50.3,       0.0);         ( 722203.8,
4131916.5,      50.3,      50.3,       0.0);
     ( 722180.8, 4131926.3,      50.3,      50.3,       0.0);         ( 722157.8,
4131936.2,      50.3,      50.3,       0.0);
     ( 722134.8, 4131946.0,      50.3,      50.3,       0.0);         ( 722111.8,
4131955.8,      50.3,      50.3,       0.0);
     ( 722088.9, 4131965.7,      50.3,      50.3,       0.0);         ( 722065.9,
4131975.5,      50.3,      50.3,       0.0);
     ( 722042.9, 4131985.3,      50.3,      50.3,       0.0);         ( 722019.9,
4131995.2,      50.3,      50.3,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(721996.9, 4132005.0, 50.3, 50.3, 0.0); (721973.9, 4132014.9, 50.3, 50.3, 0.0);
(721951.0, 4132024.7, 50.3, 50.3, 0.0); (721928.0, 4132034.5, 50.3, 50.3, 0.0);
(721905.0, 4132044.4, 50.3, 50.3, 0.0); (721882.0, 4132054.2, 50.3, 50.3, 0.0);
(721859.0, 4132064.0, 50.5, 50.5, 0.0); (722093.9, 4131295.3, 52.0, 52.0, 0.0);
(722116.8, 4131285.4, 52.1, 52.1, 0.0); (722139.7, 4131275.5, 52.1, 52.1, 0.0);
(722162.7, 4131265.5, 51.9, 51.9, 0.0); (722185.6, 4131255.6, 51.8, 51.8, 0.0);
(722208.6, 4131245.7, 51.9, 51.9, 0.0); (722231.5, 4131235.7, 52.1, 52.1, 0.0);
(722254.5, 4131225.8, 52.4, 52.4, 0.0); (722277.4, 4131215.9, 52.5, 52.5, 0.0);
(722300.3, 4131205.9, 52.5, 52.5, 0.0); (722323.3, 4131196.0, 52.5, 52.5, 0.0);
(722346.2, 4131186.1, 52.5, 52.5, 0.0); (722369.2, 4131176.1, 52.5, 52.5, 0.0);
(722392.1, 4131166.2, 52.4, 52.4, 0.0); (722415.1, 4131156.3, 52.5, 52.5, 0.0);
(722438.0, 4131146.3, 52.6, 52.6, 0.0); (722460.9, 4131136.4, 52.6, 52.6, 0.0);
(722483.9, 4131126.5, 52.5, 52.5, 0.0); (722506.8, 4131116.5, 52.5, 52.5, 0.0);
(722529.8, 4131106.6, 52.5, 52.5, 0.0); (722552.7, 4131096.7, 52.5, 52.5, 0.0);
(722575.7, 4131086.8, 52.5, 52.5, 0.0); (722598.6, 4131076.8, 52.4, 52.4, 0.0);
(722621.5, 4131066.9, 52.4, 52.4, 0.0); (722644.5, 4131057.0, 52.5, 52.5, 0.0);
(722667.4, 4131047.0, 52.6, 52.6, 0.0); (722690.4, 4131037.1, 52.6, 52.6, 0.0);
(722713.3, 4131027.2, 52.6, 52.6, 0.0); (722736.2, 4131017.2, 52.6, 52.6, 0.0);
(722759.2, 4131007.3, 52.5, 52.5, 0.0); (722771.1, 4131056.6, 51.5, 51.5, 0.0);
(722748.2, 4131066.5, 51.4, 51.4, 0.0); (722725.2, 4131076.5, 51.5, 51.5, 0.0);
(722702.3, 4131086.4, 51.5, 51.5, 0.0); (722679.4, 4131096.3, 51.5, 51.5, 0.0);
(722656.4, 4131106.3, 51.6, 51.6, 0.0); (722633.5, 4131116.2, 51.6, 51.6, 0.0);

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     ( 722610.5, 4131126.1,      51.5,      51.5,       0.0);         ( 722587.6,
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     ( 722564.6, 4131146.0,      51.5,      51.5,       0.0);         ( 722541.7,
4131155.9,      51.6,      51.6,       0.0);
     ( 722518.8, 4131165.9,      51.5,      51.5,       0.0);         ( 722495.8,
4131175.8,      51.5,      51.5,       0.0);
     ( 722472.9, 4131185.7,      51.5,      51.5,       0.0);         ( 722449.9,
4131195.7,      51.5,      51.5,       0.0);
     ( 722427.0, 4131205.6,      51.6,      51.6,       0.0);         ( 722404.0,
4131215.5,      51.6,      51.6,       0.0);
     ( 722381.1, 4131225.5,      51.6,      51.6,       0.0);         ( 722358.2,
4131235.4,      51.7,      51.7,       0.0);
     ( 722335.2, 4131245.3,      51.7,      51.7,       0.0);         ( 722312.3,
4131255.2,      51.5,      51.5,       0.0);
     ( 722289.3, 4131265.2,      51.6,      51.6,       0.0);         ( 722266.4,
4131275.1,      51.6,      51.6,       0.0);
     ( 722243.4, 4131285.0,      51.2,      51.2,       0.0);         ( 722220.5,
4131295.0,      51.4,      51.4,       0.0);
     ( 722197.6, 4131304.9,      51.4,      51.4,       0.0);         ( 722174.6,
4131314.8,      51.4,      51.4,       0.0);
     ( 722151.7, 4131324.8,      51.6,      51.6,       0.0);         ( 722128.7,
4131334.7,      51.3,      51.3,       0.0);
     ( 722148.9, 4131034.6,      52.3,      52.3,       0.0);         ( 722171.9,
4131024.8,      52.5,      52.5,       0.0);
     ( 722194.9, 4131015.1,      52.5,      52.5,       0.0);         ( 722218.0,
4131005.3,      52.6,      52.6,       0.0);
     ( 722241.0, 4130995.6,      52.7,      52.7,       0.0);         ( 722264.0,
4130985.8,      52.7,      52.7,       0.0);
     ( 722287.0, 4130976.1,      52.8,      52.8,       0.0);         ( 722310.0,
4130966.3,      52.8,      52.8,       0.0);
     ( 722333.1, 4130956.6,      52.8,      52.8,       0.0);         ( 722356.1,
4130946.8,      52.9,      52.9,       0.0);
     ( 722379.1, 4130937.1,      52.8,      52.8,       0.0);         ( 722402.1,
4130927.3,      52.8,      52.8,       0.0);
     ( 722418.0, 4130974.9,      53.2,      53.2,       0.0);         ( 722395.0,
4130984.7,      53.3,      53.3,       0.0);
     ( 722372.0, 4130994.4,      53.2,      53.2,       0.0);         ( 722348.9,
4131004.2,      53.2,      53.2,       0.0);
     ( 722325.9, 4131013.9,      53.2,      53.2,       0.0);         ( 722302.9,
4131023.7,      53.1,      53.1,       0.0);
     ( 722279.9, 4131033.4,      53.2,      53.2,       0.0);         ( 722256.8,
4131043.2,      53.1,      53.1,       0.0);
     ( 722233.8, 4131052.9,      53.2,      53.2,       0.0);         ( 722210.8,
4131062.6,      53.2,      53.2,       0.0);
     ( 722187.8, 4131072.4,      53.0,      53.0,       0.0);         ( 721461.3,
4131276.7,      49.0,      49.0,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(721484.2, 4131266.7, 48.9, 48.9, 0.0); (721507.1, 4131256.7, 48.8, 48.8, 0.0);
(721530.1, 4131246.7, 48.7, 48.7, 0.0); (721553.0, 4131236.8, 48.7, 48.7, 0.0);
(721575.9, 4131226.8, 48.7, 48.7, 0.0); (721598.8, 4131216.8, 48.9, 48.9, 0.0);
(721621.7, 4131206.8, 48.9, 48.9, 0.0); (721644.7, 4131196.8, 48.8, 48.8, 0.0);
(721667.6, 4131186.8, 49.0, 49.0, 0.0); (721690.5, 4131176.8, 49.0, 49.0, 0.0);
(721713.4, 4131166.8, 49.1, 49.1, 0.0); (721736.3, 4131156.9, 49.6, 49.6, 0.0);
(721759.2, 4131146.9, 49.7, 49.7, 0.0); (721782.2, 4131136.9, 49.8, 49.8, 0.0);
(721805.1, 4131126.9, 50.1, 50.1, 0.0); (721828.0, 4131116.9, 50.3, 50.3, 0.0);
(721850.9, 4131106.9, 50.3, 50.3, 0.0); (721873.8, 4131096.9, 50.7, 50.7, 0.0);
(721896.8, 4131086.9, 50.8, 50.8, 0.0); (721903.6, 4131127.6, 51.5, 51.5, 0.0);
(721880.7, 4131137.6, 51.5, 51.5, 0.0); (721857.8, 4131147.6, 51.5, 51.5, 0.0);
(721834.9, 4131157.5, 51.4, 51.4, 0.0); (721812.0, 4131167.5, 51.3, 51.3, 0.0);
(721789.0, 4131177.5, 51.2, 51.2, 0.0); (721766.1, 4131187.5, 51.0, 51.0, 0.0);
(721743.2, 4131197.5, 50.7, 50.7, 0.0); (721720.3, 4131207.5, 50.5, 50.5, 0.0);
(721697.4, 4131217.5, 50.5, 50.5, 0.0); (721674.4, 4131227.5, 50.4, 50.4, 0.0);
(721651.5, 4131237.4, 50.2, 50.2, 0.0); (721628.6, 4131247.4, 50.2, 50.2, 0.0);
(721605.7, 4131257.4, 50.2, 50.2, 0.0); (721582.8, 4131267.4, 49.8, 49.8, 0.0);
(721559.8, 4131277.4, 49.6, 49.6, 0.0); (721536.9, 4131287.4, 49.6, 49.6, 0.0);
(721514.0, 4131297.4, 49.8, 49.8, 0.0); (721491.1, 4131307.3, 50.1, 50.1, 0.0);
(721412.4, 4131178.3, 48.4, 48.4, 0.0); (721435.4, 4131168.4, 48.2, 48.2, 0.0);
(721458.3, 4131158.5, 48.2, 48.2, 0.0); (721481.3, 4131148.6, 48.2, 48.2, 0.0);

```
     ( 721504.2, 4131138.7,      48.3,      48.3,       0.0);         ( 721527.2,
4131128.7,      48.5,      48.5,       0.0);
     ( 721550.1, 4131118.8,      48.5,      48.5,       0.0);         ( 721573.1,
4131108.9,      48.5,      48.5,       0.0);
     ( 721596.0, 4131099.0,      48.5,      48.5,       0.0);         ( 721619.0,
4131089.1,      48.5,      48.5,       0.0);
     ( 721641.9, 4131079.2,      48.5,      48.5,       0.0);         ( 721664.9,
4131069.3,      48.4,      48.4,       0.0);
     ( 721687.8, 4131059.3,      48.3,      48.3,       0.0);         ( 721710.8,
4131049.4,      48.2,      48.2,       0.0);
     ( 721733.7, 4131039.5,      48.2,      48.2,       0.0);         ( 721756.7,
4131029.6,      48.4,      48.4,       0.0);
     ( 721779.6, 4131019.7,      48.5,      48.5,       0.0);         ( 721802.6,
4131009.8,      48.9,      48.9,       0.0);
     ( 721825.5, 4130999.9,      49.1,      49.1,       0.0);         ( 721848.5,
4130989.9,      49.3,      49.3,       0.0);
     ( 721871.4, 4130980.0,      49.4,      49.4,       0.0);         ( 721894.4,
4130970.1,      49.5,      49.5,       0.0);
     ( 721917.3, 4130960.2,      49.9,      49.9,       0.0);         ( 721940.3,
4130950.3,      49.7,      49.7,       0.0);
     ( 721963.2, 4130940.4,      49.9,      49.9,       0.0);         ( 721986.2,
4130930.5,      49.9,      49.9,       0.0);
     ( 722009.1, 4130920.6,      49.8,      49.8,       0.0);         ( 722032.1,
4130910.6,      50.3,      50.3,       0.0);
     ( 722055.0, 4130900.7,      50.3,      50.3,       0.0);         ( 722078.0,
4130890.8,      50.6,      50.6,       0.0);
     ( 722100.9, 4130880.9,      50.9,      50.9,       0.0);         ( 722123.9,
4130871.0,      50.9,      50.9,       0.0);
     ( 722146.8, 4130861.1,      51.1,      51.1,       0.0);         ( 722169.8,
4130851.2,      51.2,      51.2,       0.0);
     ( 722192.7, 4130841.2,      51.3,      51.3,       0.0);         ( 722215.7,
4130831.3,      51.2,      51.2,       0.0);
     ( 722238.6, 4130821.4,      51.3,      51.3,       0.0);         ( 722261.6,
4130811.5,      51.4,      51.4,       0.0);
     ( 722284.5, 4130801.6,      51.5,      51.5,       0.0);         ( 722307.5,
4130791.7,      51.4,      51.4,       0.0);
     ( 722330.4, 4130781.8,      51.3,      51.3,       0.0);         ( 722374.0,
4130839.2,      52.2,      52.2,       0.0);
     ( 722351.1, 4130849.1,      52.3,      52.3,       0.0);         ( 722328.1,
4130859.0,      52.3,      52.3,       0.0);
     ( 722305.2, 4130868.9,      52.2,      52.2,       0.0);         ( 722282.2,
4130878.8,      52.0,      52.0,       0.0);
     ( 722259.3, 4130888.8,      51.9,      51.9,       0.0);         ( 722236.3,
4130898.7,      51.8,      51.8,       0.0);
     ( 722213.4, 4130908.6,      51.8,      51.8,       0.0);         ( 722190.4,
4130918.5,      51.8,      51.8,       0.0);
     ( 722167.5, 4130928.4,      51.7,      51.7,       0.0);         ( 722144.5,
4130938.3,      51.5,      51.5,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722121.6, 4130948.2, 51.4, 51.4, 0.0); (722098.6, 4130958.1, 51.2, 51.2, 0.0);
(722075.7, 4130968.1, 50.8, 50.8, 0.0); (722052.7, 4130978.0, 50.6, 50.6, 0.0);
(722029.8, 4130987.9, 50.5, 50.5, 0.0); (722006.8, 4130997.8, 50.3, 50.3, 0.0);
(721983.9, 4131007.7, 50.3, 50.3, 0.0); (721960.9, 4131017.6, 50.3, 50.3, 0.0);
(721938.0, 4131027.5, 50.2, 50.2, 0.0); (721915.0, 4131037.5, 50.1, 50.1, 0.0);
(721892.1, 4131047.4, 50.3, 50.3, 0.0); (721869.1, 4131057.3, 50.1, 50.1, 0.0);
(721846.2, 4131067.2, 50.0, 50.0, 0.0); (721823.2, 4131077.1, 49.7, 49.7, 0.0);
(721800.3, 4131087.0, 49.6, 49.6, 0.0); (721777.3, 4131096.9, 49.3, 49.3, 0.0);
(721754.4, 4131106.8, 48.9, 48.9, 0.0); (721731.4, 4131116.8, 48.7, 48.7, 0.0);
(721708.5, 4131126.7, 48.5, 48.5, 0.0); (721685.5, 4131136.6, 48.3, 48.3, 0.0);
(721662.6, 4131146.5, 48.3, 48.3, 0.0); (721639.6, 4131156.4, 48.3, 48.3, 0.0);
(721616.7, 4131166.3, 48.2, 48.2, 0.0); (721593.7, 4131176.2, 48.3, 48.3, 0.0);
(721570.8, 4131186.2, 48.2, 48.2, 0.0); (721547.8, 4131196.1, 48.2, 48.2, 0.0);
(721524.9, 4131206.0, 48.3, 48.3, 0.0); (721501.9, 4131215.9, 48.4, 48.4, 0.0);
(721479.0, 4131225.8, 48.5, 48.5, 0.0); (721456.0, 4131235.7, 48.6, 48.6, 0.0);
(721024.6, 4133243.0, 49.2, 49.2, 0.0); (720598.4, 4133479.0, 48.9, 48.9, 0.0);
(721792.2, 4132066.3, 50.6, 50.6, 1.8); (721583.8, 4131986.1, 50.3, 50.3, 0.0);
(721606.8, 4131976.2, 50.3, 50.3, 0.0); (721629.8, 4131966.4, 50.3, 50.3, 0.0);
(721652.8, 4131956.5, 50.3, 50.3, 0.0); (721675.7, 4131946.7, 50.3, 50.3, 0.0);
(721698.7, 4131936.8, 50.3, 50.3, 0.0); (721721.7, 4131926.9, 50.3, 50.3, 0.0);

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     ( 721744.7, 4131917.1,      50.3,      50.3,       0.0);         ( 721767.6,
4131907.2,      50.3,      50.3,       0.0);
     ( 721790.6, 4131897.4,      50.3,      50.3,       0.0);         ( 721813.6,
4131887.5,      50.3,      50.3,       0.0);
     ( 721836.6, 4131877.7,      50.3,      50.3,       0.0);         ( 721859.5,
4131867.8,      50.3,      50.3,       0.0);
     ( 721882.5, 4131858.0,      50.3,      50.3,       0.0);         ( 721905.5,
4131848.1,      50.3,      50.3,       0.0);
     ( 721928.5, 4131838.2,      50.3,      50.3,       0.0);         ( 721951.4,
4131828.4,      50.3,      50.3,       0.0);
     ( 721974.4, 4131818.5,      50.3,      50.3,       0.0);         ( 721997.4,
4131808.7,      50.3,      50.3,       0.0);
     ( 722020.4, 4131798.8,      50.3,      50.3,       0.0);         ( 722043.3,
4131789.0,      50.3,      50.3,       0.0);
     ( 722066.3, 4131779.1,      50.3,      50.3,       0.0);         ( 722089.3,
4131769.3,      50.3,      50.3,       0.0);
     ( 722112.3, 4131759.4,      50.3,      50.3,       0.0);         ( 722135.2,
4131749.6,      50.3,      50.3,       0.0);
     ( 722158.2, 4131739.7,      50.3,      50.3,       0.0);         ( 722181.2,
4131729.8,      50.3,      50.3,       0.0);
     ( 722204.2, 4131720.0,      50.3,      50.3,       0.0);         ( 722227.2,
4131710.1,      50.3,      50.3,       0.0);
     ( 722250.1, 4131700.3,      50.3,      50.3,       0.0);         ( 722273.1,
4131690.4,      50.3,      50.3,       0.0);
     ( 722296.1, 4131680.6,      50.3,      50.3,       0.0);         ( 722319.1,
4131670.7,      50.3,      50.3,       0.0);
     ( 722342.0, 4131660.9,      50.3,      50.3,       0.0);         ( 722365.0,
4131651.0,      50.3,      50.3,       0.0);
     ( 722388.0, 4131641.1,      50.3,      50.3,       0.0);         ( 722411.0,
4131631.3,      50.3,      50.3,       0.0);
     ( 722433.9, 4131621.4,      50.3,      50.3,       0.0);         ( 722456.9,
4131611.6,      50.3,      50.3,       0.0);
     ( 722479.9, 4131601.7,      50.6,      50.6,       0.0);         ( 722502.9,
4131591.9,      50.6,      50.6,       0.0);
     ( 722525.8, 4131582.0,      50.6,      50.6,       0.0);         ( 722548.8,
4131572.2,      50.6,      50.6,       0.0);
     ( 722571.8, 4131562.3,      50.6,      50.6,       0.0);         ( 722594.8,
4131552.4,      50.6,      50.6,       0.0);
     ( 722617.7, 4131542.6,      50.6,      50.6,       0.0);         ( 722640.7,
4131532.7,      50.6,      50.6,       0.0);
     ( 722663.7, 4131522.9,      50.6,      50.6,       0.0);         ( 722686.7,
4131513.0,      50.6,      50.6,       0.0);
     ( 722709.6, 4131503.2,      50.6,      50.6,       0.0);         ( 722732.6,
4131493.3,      50.6,      50.6,       0.0);
     ( 722755.6, 4131483.5,      50.6,      50.6,       0.0);         ( 722778.6,
4131473.6,      50.6,      50.6,       0.0);
     ( 722801.5, 4131463.8,      50.6,      50.6,       0.0);         ( 722824.5,
4131453.9,      50.6,      50.6,       0.0);
     ( 722847.5, 4131444.0,      50.6,      50.6,       0.0);         ( 722870.5,
4131434.2,      50.6,      50.6,       0.0);
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722893.4, 4131424.3, 50.6, 50.6, 0.0); (722916.4, 4131414.5, 50.6, 50.6, 0.0);
(722939.4, 4131404.6, 50.6, 50.6, 0.0); (722962.4, 4131394.8, 50.9, 50.9, 0.0);
(722985.3, 4131384.9, 50.9, 50.9, 0.0); (723008.3, 4131375.1, 50.9, 50.9, 0.0);
(723031.3, 4131365.2, 50.9, 50.9, 0.0); (723054.3, 4131355.3, 50.9, 50.9, 0.0);
(723077.2, 4131345.5, 50.9, 50.9, 0.0); (723100.2, 4131335.6, 50.9, 50.9, 0.0);
(723123.2, 4131325.8, 50.9, 50.9, 0.0); (723146.2, 4131315.9, 50.9, 50.9, 0.0);
(723169.1, 4131306.1, 50.9, 50.9, 0.0); (723192.1, 4131296.2, 50.9, 50.9, 0.0);
(723267.0, 4131369.8, 51.0, 51.0, 0.0); (723245.7, 4131382.0, 50.9, 50.9, 0.0);
(723222.7, 4131391.9, 51.0, 51.0, 0.0); (723199.7, 4131401.8, 51.2, 51.2, 0.0);
(723176.7, 4131411.6, 51.2, 51.2, 0.0); (723153.8, 4131421.5, 51.1, 51.1, 0.0);
(723130.8, 4131431.3, 51.2, 51.2, 0.0); (723107.8, 4131441.2, 51.1, 51.1, 0.0);
(723084.8, 4131451.0, 50.9, 50.9, 0.0); (723061.9, 4131460.9, 50.9, 50.9, 0.0);
(723038.9, 4131470.8, 50.9, 50.9, 0.0); (723015.9, 4131480.6, 50.9, 50.9, 0.0);
(722992.9, 4131490.5, 50.9, 50.9, 0.0); (722970.0, 4131500.3, 50.9, 50.9, 0.0);
(722947.0, 4131510.2, 50.9, 50.9, 0.0); (722924.0, 4131520.0, 50.9, 50.9, 0.0);
(722901.0, 4131529.9, 50.9, 50.9, 0.0); (722878.1, 4131539.7, 50.9, 50.9, 0.0);
(722855.1, 4131549.6, 50.9, 50.9, 0.0); (722832.1, 4131559.4, 50.9, 50.9, 0.0);
(722809.1, 4131569.3, 50.9, 50.9, 0.0); (722786.2, 4131579.2, 50.9, 50.9, 0.0);
(722763.2, 4131589.0, 50.9, 50.9, 0.0); (722740.2, 4131598.9, 50.8, 50.8, 0.0);

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     ( 722717.2, 4131608.7,      50.8,      50.8,       0.0);         ( 722694.3,
4131618.6,      50.6,      50.6,       0.0);
     ( 722671.3, 4131628.4,      50.6,      50.6,       0.0);         ( 722648.3,
4131638.3,      50.6,      50.6,       0.0);
     ( 722625.3, 4131648.1,      50.6,      50.6,       0.0);         ( 722602.4,
4131658.0,      50.6,      50.6,       0.0);
     ( 722579.4, 4131667.9,      50.6,      50.6,       0.0);         ( 722556.4,
4131677.7,      50.6,      50.6,       0.0);
     ( 722533.4, 4131687.6,      50.6,      50.6,       0.0);         ( 722510.5,
4131697.4,      50.6,      50.6,       0.0);
     ( 722487.5, 4131707.3,      50.3,      50.3,       0.0);         ( 722464.5,
4131717.1,      50.3,      50.3,       0.0);
     ( 722441.5, 4131727.0,      50.3,      50.3,       0.0);         ( 722418.6,
4131736.8,      50.3,      50.3,       0.0);
     ( 722395.6, 4131746.7,      50.3,      50.3,       0.0);         ( 722372.6,
4131756.5,      50.3,      50.3,       0.0);
     ( 722349.6, 4131766.4,      50.3,      50.3,       0.0);         ( 722326.7,
4131776.3,      50.3,      50.3,       0.0);
     ( 722303.7, 4131786.1,      50.3,      50.3,       0.0);         ( 722280.7,
4131796.0,      50.3,      50.3,       0.0);
     ( 722257.7, 4131805.8,      50.3,      50.3,       0.0);         ( 722234.8,
4131815.7,      50.3,      50.3,       0.0);
     ( 722211.8, 4131825.5,      50.3,      50.3,       0.0);         ( 722188.8,
4131835.4,      50.3,      50.3,       0.0);
     ( 722165.8, 4131845.2,      50.3,      50.3,       0.0);         ( 722142.8,
4131855.1,      50.3,      50.3,       0.0);
     ( 722119.9, 4131865.0,      50.3,      50.3,       0.0);         ( 722096.9,
4131874.8,      50.3,      50.3,       0.0);
     ( 722073.9, 4131884.7,      50.3,      50.3,       0.0);         ( 722050.9,
4131894.5,      50.3,      50.3,       0.0);
     ( 722028.0, 4131904.4,      50.3,      50.3,       0.0);         ( 722005.0,
4131914.2,      50.3,      50.3,       0.0);
     ( 721982.0, 4131924.1,      50.3,      50.3,       0.0);         ( 721959.0,
4131933.9,      50.3,      50.3,       0.0);
     ( 721936.1, 4131943.8,      50.3,      50.3,       0.0);         ( 721913.1,
4131953.7,      50.3,      50.3,       0.0);
     ( 721890.1, 4131963.5,      50.3,      50.3,       0.0);         ( 721867.1,
4131973.4,      50.3,      50.3,       0.0);
     ( 721844.2, 4131983.2,      50.3,      50.3,       0.0);         ( 721821.2,
4131993.1,      50.5,      50.5,       0.0);
     ( 721798.2, 4132002.9,      50.6,      50.6,       0.0);         ( 721775.2,
4132012.8,      50.6,      50.6,       0.0);
     ( 721752.3, 4132022.6,      50.6,      50.6,       0.0);         ( 721729.3,
4132032.5,      50.5,      50.5,       0.0);
     ( 721706.3, 4132042.4,      50.3,      50.3,       0.0);         ( 721683.3,
4132052.2,      50.3,      50.3,       0.0);
     ( 721660.4, 4132062.1,      50.3,      50.3,       0.0);         ( 721637.4,
4132071.9,      50.3,      50.3,       0.0);
     ( 721841.2, 4132144.7,      50.6,      50.6,       0.0);         ( 721864.2,
4132134.9,      50.5,      50.5,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(721933.1, 4132105.4, 50.3, 50.3, 0.0); (721956.1, 4132095.6, 50.3, 50.3, 0.0);
(721979.1, 4132085.7, 50.3, 50.3, 0.0); (722002.1, 4132075.9, 50.3, 50.3, 0.0);
(722025.1, 4132066.1, 50.3, 50.3, 0.0); (722048.0, 4132056.2, 50.3, 50.3, 0.0);
(722071.0, 4132046.4, 50.3, 50.3, 0.0); (722094.0, 4132036.6, 50.3, 50.3, 0.0);
(722117.0, 4132026.7, 50.3, 50.3, 0.0); (722140.0, 4132016.9, 50.3, 50.3, 0.0);
(722163.0, 4132007.1, 50.3, 50.3, 0.0); (722186.0, 4131997.2, 50.3, 50.3, 0.0);
(722208.9, 4131987.4, 50.3, 50.3, 0.0); (722231.9, 4131977.6, 50.3, 50.3, 0.0);
(722254.9, 4131967.8, 50.3, 50.3, 0.0); (722277.9, 4131957.9, 50.3, 50.3, 0.0);
(722300.9, 4131948.1, 50.3, 50.3, 0.0); (722323.9, 4131938.3, 50.3, 50.3, 0.0);
(722346.9, 4131928.4, 50.3, 50.3, 0.0); (722369.8, 4131918.6, 50.3, 50.3, 0.0);
(722392.8, 4131908.8, 50.3, 50.3, 0.0); (722415.8, 4131898.9, 50.3, 50.3, 0.0);
(722438.8, 4131889.1, 50.3, 50.3, 0.0); (722461.8, 4131879.3, 50.3, 50.3, 0.0);
(722484.8, 4131869.4, 50.3, 50.3, 0.0); (722507.8, 4131859.6, 50.3, 50.3, 0.0);
(722530.7, 4131849.8, 50.5, 50.5, 0.0); (722553.7, 4131839.9, 50.6, 50.6, 0.0);
(722576.7, 4131830.1, 50.6, 50.6, 0.0); (722599.7, 4131820.3, 50.6, 50.6, 0.0);
(722622.7, 4131810.4, 50.6, 50.6, 0.0); (722645.7, 4131800.6, 50.6, 50.6, 0.0);
(722668.7, 4131790.8, 50.6, 50.6, 0.0); (722691.6, 4131780.9, 50.6, 50.6, 0.0);
(722714.6, 4131771.1, 50.6, 50.6, 0.0); (722737.6, 4131761.3, 50.7, 50.7, 0.0);

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     ( 722760.6, 4131751.5,      50.9,      50.9,       0.0);         ( 722783.6,
4131741.6,      50.9,      50.9,       0.0);
     ( 722806.6, 4131731.8,      50.9,      50.9,       0.0);         ( 722829.6,
4131722.0,      50.9,      50.9,       0.0);
     ( 722852.5, 4131712.1,      50.9,      50.9,       0.0);         ( 722875.5,
4131702.3,      50.9,      50.9,       0.0);
     ( 722898.5, 4131692.5,      50.9,      50.9,       0.0);         ( 722921.5,
4131682.6,      50.9,      50.9,       0.0);
     ( 722944.5, 4131672.8,      51.0,      51.0,       0.0);         ( 722967.5,
4131663.0,      51.1,      51.1,       0.0);
     ( 722990.5, 4131653.1,      51.2,      51.2,       0.0);         ( 723013.4,
4131643.3,      51.2,      51.2,       0.0);
     ( 723036.4, 4131633.5,      51.1,      51.1,       0.0);         ( 723059.4,
4131623.6,      51.2,      51.2,       0.0);
     ( 723082.4, 4131613.8,      51.2,      51.2,       0.0);         ( 723105.4,
4131604.0,      51.3,      51.3,       0.0);
     ( 723128.4, 4131594.1,      51.3,      51.3,       0.0);         ( 723151.4,
4131584.3,      51.3,      51.3,       0.0);
     ( 723174.3, 4131574.5,      51.4,      51.4,       0.0);         ( 723197.3,
4131564.7,      51.2,      51.2,       0.0);
     ( 723220.3, 4131554.8,      51.0,      51.0,       0.0);         ( 723243.3,
4131545.0,      50.9,      50.9,       0.0);
     ( 723266.3, 4131535.2,      50.9,      50.9,       0.0);         ( 723289.3,
4131525.3,      51.2,      51.2,       0.0);
     ( 723316.8, 4131622.3,      51.5,      51.5,       0.0);         ( 723293.8,
4131632.2,      51.5,      51.5,       0.0);
     ( 723270.8, 4131642.0,      51.3,      51.3,       0.0);         ( 723247.8,
4131651.8,      51.2,      51.2,       0.0);
     ( 723224.8, 4131661.7,      51.3,      51.3,       0.0);         ( 723201.8,
4131671.5,      51.5,      51.5,       0.0);
     ( 723178.8, 4131681.3,      51.5,      51.5,       0.0);         ( 723155.9,
4131691.2,      51.5,      51.5,       0.0);
     ( 723132.9, 4131701.0,      51.5,      51.5,       0.0);         ( 723109.9,
4131710.8,      51.5,      51.5,       0.0);
     ( 723086.9, 4131720.6,      51.2,      51.2,       0.0);         ( 723063.9,
4131730.5,      51.2,      51.2,       0.0);
     ( 723040.9, 4131740.3,      51.2,      51.2,       0.0);         ( 723017.9,
4131750.1,      51.2,      51.2,       0.0);
     ( 722995.0, 4131760.0,      51.2,      51.2,       0.0);         ( 722972.0,
4131769.8,      51.2,      51.2,       0.0);
     ( 722949.0, 4131779.6,      51.2,      51.2,       0.0);         ( 722926.0,
4131789.5,      51.2,      51.2,       0.0);
     ( 722903.0, 4131799.3,      51.2,      51.2,       0.0);         ( 722880.0,
4131809.1,      51.2,      51.2,       0.0);
     ( 722857.0, 4131819.0,      51.2,      51.2,       0.0);         ( 722834.1,
4131828.8,      51.1,      51.1,       0.0);
     ( 722811.1, 4131838.6,      50.9,      50.9,       0.0);         ( 722788.1,
4131848.5,      50.9,      50.9,       0.0);
     ( 722765.1, 4131858.3,      50.9,      50.9,       0.0);         ( 722742.1,
4131868.1,      50.9,      50.9,       0.0);
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(722719.1, 4131878.0, 50.8, 50.8, 0.0); (722696.1,
4131887.8, 50.6, 50.6, 0.0);
(722673.2, 4131897.6, 50.6, 50.6, 0.0); (722650.2,
4131907.4, 50.6, 50.6, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722627.2, 4131917.3, 50.6, 50.6, 0.0); (722604.2,
4131927.1, 50.6, 50.6, 0.0);
(722581.2, 4131936.9, 50.6, 50.6, 0.0); (722558.2,
4131946.8, 50.6, 50.6, 0.0);
(722535.2, 4131956.6, 50.5, 50.5, 0.0); (722512.3,
4131966.4, 50.3, 50.3, 0.0);
(722489.3, 4131976.3, 50.3, 50.3, 0.0); (722466.3,
4131986.1, 50.3, 50.3, 0.0);
(722443.3, 4131995.9, 50.3, 50.3, 0.0); (722420.3,
4132005.8, 50.3, 50.3, 0.0);
(722397.3, 4132015.6, 50.3, 50.3, 0.0); (722374.3,
4132025.4, 50.3, 50.3, 0.0);
(722351.4, 4132035.3, 50.3, 50.3, 0.0); (722328.4,
4132045.1, 50.3, 50.3, 0.0);
(722305.4, 4132054.9, 50.3, 50.3, 0.0); (722282.4,
4132064.8, 50.3, 50.3, 0.0);
(722259.4, 4132074.6, 50.3, 50.3, 0.0); (722236.4,
4132084.4, 50.3, 50.3, 0.0);
(722213.4, 4132094.2, 50.3, 50.3, 0.0); (722190.5,
4132104.1, 50.3, 50.3, 0.0);
(722167.5, 4132113.9, 50.3, 50.3, 0.0); (722144.5,
4132123.8, 50.3, 50.3, 0.0);
(722121.5, 4132133.6, 50.3, 50.3, 0.0); (722098.5,
4132143.4, 50.3, 50.3, 0.0);
(722075.5, 4132153.2, 50.3, 50.3, 0.0); (722052.5,
4132163.1, 50.3, 50.3, 0.0);
(722029.6, 4132172.9, 50.3, 50.3, 0.0); (722006.6,
4132182.7, 50.3, 50.3, 0.0);
(721983.6, 4132192.6, 50.3, 50.3, 0.0); (721960.6,
4132202.4, 50.4, 50.4, 0.0);
(721937.6, 4132212.2, 50.6, 50.6, 0.0); (721914.6,
4132222.1, 50.6, 50.6, 0.0);
(721891.6, 4132231.9, 50.6, 50.6, 0.0); (721853.4,
4132064.3, 50.6, 50.6, 0.0);

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     ( 721876.4, 4132054.5,      50.4,      50.4,       0.0);         ( 721899.3,
4132044.6,      50.3,      50.3,       0.0);
     ( 721922.3, 4132034.8,      50.3,      50.3,       0.0);         ( 721945.3,
4132024.9,      50.3,      50.3,       0.0);
     ( 721968.3, 4132015.1,      50.3,      50.3,       0.0);         ( 721991.3,
4132005.3,      50.3,      50.3,       0.0);
     ( 722014.3, 4131995.4,      50.3,      50.3,       0.0);         ( 722037.2,
4131985.6,      50.3,      50.3,       0.0);
     ( 722060.2, 4131975.8,      50.3,      50.3,       0.0);         ( 722083.2,
4131965.9,      50.3,      50.3,       0.0);
     ( 722106.2, 4131956.1,      50.3,      50.3,       0.0);         ( 722129.2,
4131946.2,      50.3,      50.3,       0.0);
     ( 722152.2, 4131936.4,      50.3,      50.3,       0.0);         ( 722175.1,
4131926.6,      50.3,      50.3,       0.0);
     ( 722198.1, 4131916.7,      50.3,      50.3,       0.0);         ( 722221.1,
4131906.9,      50.3,      50.3,       0.0);
     ( 722244.1, 4131897.0,      50.3,      50.3,       0.0);         ( 722267.1,
4131887.2,      50.3,      50.3,       0.0);
     ( 722290.1, 4131877.4,      50.3,      50.3,       0.0);         ( 722313.0,
4131867.5,      50.3,      50.3,       0.0);
     ( 722336.0, 4131857.7,      50.3,      50.3,       0.0);         ( 722359.0,
4131847.9,      50.3,      50.3,       0.0);
     ( 722382.0, 4131838.0,      50.3,      50.3,       0.0);         ( 722405.0,
4131828.2,      50.3,      50.3,       0.0);
     ( 722428.0, 4131818.3,      50.3,      50.3,       0.0);         ( 722450.9,
4131808.5,      50.3,      50.3,       0.0);
     ( 722473.9, 4131798.7,      50.3,      50.3,       0.0);         ( 722496.9,
4131788.8,      50.4,      50.4,       0.0);
     ( 722519.9, 4131779.0,      50.5,      50.5,       0.0);         ( 722542.9,
4131769.2,      50.6,      50.6,       0.0);
     ( 722565.9, 4131759.3,      50.6,      50.6,       0.0);         ( 722588.8,
4131749.5,      50.6,      50.6,       0.0);
     ( 722611.8, 4131739.6,      50.6,      50.6,       0.0);         ( 722634.8,
4131729.8,      50.6,      50.6,       0.0);
     ( 722657.8, 4131720.0,      50.6,      50.6,       0.0);         ( 722680.8,
4131710.1,      50.6,      50.6,       0.0);
     ( 722703.8, 4131700.3,      50.6,      50.6,       0.0);         ( 722726.7,
4131690.5,      50.6,      50.6,       0.0);
     ( 722749.7, 4131680.6,      50.9,      50.9,       0.0);         ( 722772.7,
4131670.8,      50.9,      50.9,       0.0);
     ( 722795.7, 4131660.9,      50.9,      50.9,       0.0);         ( 722818.7,
4131651.1,      50.9,      50.9,       0.0);
     ( 722841.7, 4131641.3,      50.9,      50.9,       0.0);         ( 722864.6,
4131631.4,      50.9,      50.9,       0.0);
     ( 722887.6, 4131621.6,      50.9,      50.9,       0.0);         ( 722910.6,
4131611.8,      50.9,      50.9,       0.0);
     ( 722933.6, 4131601.9,      50.9,      50.9,       0.0);         ( 722956.6,
4131592.1,      50.9,      50.9,       0.0);
     ( 722979.6, 4131582.2,      50.9,      50.9,       0.0);         ( 723002.5,
4131572.4,      50.9,      50.9,       0.0);
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(723025.5, 4131562.6, 50.9, 50.9, 0.0); (723048.5,
4131552.7, 50.9, 50.9, 0.0);
(723071.5, 4131542.9, 50.9, 50.9, 0.0); (723094.5,
4131533.1, 51.0, 51.0, 0.0);
(723117.4, 4131523.2, 51.2, 51.2, 0.0); (723140.4,
4131513.4, 51.2, 51.2, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(723163.4, 4131503.5, 51.2, 51.2, 0.0); (723186.4,
4131493.7, 51.2, 51.2, 0.0);
(723209.4, 4131483.9, 51.1, 51.1, 0.0); (723232.4,
4131474.0, 50.9, 50.9, 0.0);
(723255.3, 4131464.2, 50.9, 50.9, 0.0); (723278.3,
4131454.3, 51.0, 51.0, 0.0);
(723261.0, 4131463.9, 50.9, 50.9, 0.0); (723238.0,
4131473.8, 50.9, 50.9, 0.0);
(723215.0, 4131483.6, 51.1, 51.1, 0.0); (723192.0,
4131493.5, 51.2, 51.2, 0.0);
(723169.1, 4131503.3, 51.2, 51.2, 0.0); (723146.1,
4131513.1, 51.2, 51.2, 0.0);
(723123.1, 4131523.0, 51.2, 51.2, 0.0); (723100.1,
4131532.8, 51.1, 51.1, 0.0);
(723077.1, 4131542.6, 50.9, 50.9, 0.0); (723054.2,
4131552.5, 50.9, 50.9, 0.0);
(723031.2, 4131562.3, 50.9, 50.9, 0.0); (723008.2,
4131572.2, 50.9, 50.9, 0.0);
(722985.2, 4131582.0, 50.9, 50.9, 0.0); (722962.2,
4131591.8, 50.9, 50.9, 0.0);
(722939.2, 4131601.7, 50.9, 50.9, 0.0); (722916.2,
4131611.5, 50.9, 50.9, 0.0);
(722893.3, 4131621.3, 50.9, 50.9, 0.0); (722870.3,
4131631.2, 50.9, 50.9, 0.0);
(722847.3, 4131641.0, 50.9, 50.9, 0.0); (722824.3,
4131650.9, 50.9, 50.9, 0.0);
(722801.3, 4131660.7, 50.9, 50.9, 0.0); (722778.4,
4131670.5, 50.9, 50.9, 0.0);
(722755.4, 4131680.4, 50.9, 50.9, 0.0); (722732.4,
4131690.2, 50.7, 50.7, 0.0);
(722709.4, 4131700.0, 50.6, 50.6, 0.0); (722686.4,
4131709.9, 50.6, 50.6, 0.0);

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     ( 722663.4, 4131719.7,      50.6,      50.6,       0.0);         ( 722640.5,
4131729.6,      50.6,      50.6,       0.0);
     ( 722617.5, 4131739.4,      50.6,      50.6,       0.0);         ( 722594.5,
4131749.2,      50.6,      50.6,       0.0);
     ( 722571.5, 4131759.1,      50.6,      50.6,       0.0);         ( 722548.5,
4131768.9,      50.6,      50.6,       0.0);
     ( 722525.5, 4131778.8,      50.5,      50.5,       0.0);         ( 722502.6,
4131788.6,      50.4,      50.4,       0.0);
     ( 722479.6, 4131798.4,      50.3,      50.3,       0.0);         ( 722456.6,
4131808.3,      50.3,      50.3,       0.0);
     ( 722433.6, 4131818.1,      50.3,      50.3,       0.0);         ( 722410.6,
4131827.9,      50.3,      50.3,       0.0);
     ( 722387.6, 4131837.8,      50.3,      50.3,       0.0);         ( 722364.7,
4131847.6,      50.3,      50.3,       0.0);
     ( 722341.7, 4131857.5,      50.3,      50.3,       0.0);         ( 722318.7,
4131867.3,      50.3,      50.3,       0.0);
     ( 722295.7, 4131877.1,      50.3,      50.3,       0.0);         ( 722272.7,
4131887.0,      50.3,      50.3,       0.0);
     ( 722249.7, 4131896.8,      50.3,      50.3,       0.0);         ( 722226.8,
4131906.6,      50.3,      50.3,       0.0);
     ( 722203.8, 4131916.5,      50.3,      50.3,       0.0);         ( 722180.8,
4131926.3,      50.3,      50.3,       0.0);
     ( 722157.8, 4131936.2,      50.3,      50.3,       0.0);         ( 722134.8,
4131946.0,      50.3,      50.3,       0.0);
     ( 722111.8, 4131955.8,      50.3,      50.3,       0.0);         ( 722088.9,
4131965.7,      50.3,      50.3,       0.0);
     ( 722065.9, 4131975.5,      50.3,      50.3,       0.0);         ( 722042.9,
4131985.3,      50.3,      50.3,       0.0);
     ( 722019.9, 4131995.2,      50.3,      50.3,       0.0);         ( 721996.9,
4132005.0,      50.3,      50.3,       0.0);
     ( 721973.9, 4132014.9,      50.3,      50.3,       0.0);         ( 721951.0,
4132024.7,      50.3,      50.3,       0.0);
     ( 721928.0, 4132034.5,      50.3,      50.3,       0.0);         ( 721905.0,
4132044.4,      50.3,      50.3,       0.0);
     ( 721882.0, 4132054.2,      50.3,      50.3,       0.0);         ( 721859.0,
4132064.0,      50.5,      50.5,       0.0);
     ( 722093.9, 4131295.3,      52.0,      52.0,       0.0);         ( 722116.8,
4131285.4,      52.1,      52.1,       0.0);
     ( 722139.7, 4131275.5,      52.1,      52.1,       0.0);         ( 722162.7,
4131265.5,      51.9,      51.9,       0.0);
     ( 722185.6, 4131255.6,      51.8,      51.8,       0.0);         ( 722208.6,
4131245.7,      51.9,      51.9,       0.0);
     ( 722231.5, 4131235.7,      52.1,      52.1,       0.0);         ( 722254.5,
4131225.8,      52.4,      52.4,       0.0);
     ( 722277.4, 4131215.9,      52.5,      52.5,       0.0);         ( 722300.3,
4131205.9,      52.5,      52.5,       0.0);
     ( 722323.3, 4131196.0,      52.5,      52.5,       0.0);         ( 722346.2,
4131186.1,      52.5,      52.5,       0.0);
     ( 722369.2, 4131176.1,      52.5,      52.5,       0.0);         ( 722392.1,
4131166.2,      52.4,      52.4,       0.0);
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(722415.1, 4131156.3, 52.5, 52.5, 0.0); (722438.0, 4131146.3, 52.6, 52.6, 0.0);
(722460.9, 4131136.4, 52.6, 52.6, 0.0); (722483.9, 4131126.5, 52.5, 52.5, 0.0);
(722506.8, 4131116.5, 52.5, 52.5, 0.0); (722529.8, 4131106.6, 52.5, 52.5, 0.0);
(722552.7, 4131096.7, 52.5, 52.5, 0.0); (722575.7, 4131086.8, 52.5, 52.5, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(722598.6, 4131076.8, 52.4, 52.4, 0.0); (722621.5, 4131066.9, 52.4, 52.4, 0.0);
(722644.5, 4131057.0, 52.5, 52.5, 0.0); (722667.4, 4131047.0, 52.6, 52.6, 0.0);
(722690.4, 4131037.1, 52.6, 52.6, 0.0); (722713.3, 4131027.2, 52.6, 52.6, 0.0);
(722736.2, 4131017.2, 52.6, 52.6, 0.0); (722759.2, 4131007.3, 52.5, 52.5, 0.0);
(722771.1, 4131056.6, 51.5, 51.5, 0.0); (722748.2, 4131066.5, 51.4, 51.4, 0.0);
(722725.2, 4131076.5, 51.5, 51.5, 0.0); (722702.3, 4131086.4, 51.5, 51.5, 0.0);
(722679.4, 4131096.3, 51.5, 51.5, 0.0); (722656.4, 4131106.3, 51.6, 51.6, 0.0);
(722633.5, 4131116.2, 51.6, 51.6, 0.0); (722610.5, 4131126.1, 51.5, 51.5, 0.0);
(722587.6, 4131136.1, 51.5, 51.5, 0.0); (722564.6, 4131146.0, 51.5, 51.5, 0.0);
(722541.7, 4131155.9, 51.6, 51.6, 0.0); (722518.8, 4131165.9, 51.5, 51.5, 0.0);
(722495.8, 4131175.8, 51.5, 51.5, 0.0); (722472.9, 4131185.7, 51.5, 51.5, 0.0);
(722449.9, 4131195.7, 51.5, 51.5, 0.0); (722427.0, 4131205.6, 51.6, 51.6, 0.0);
(722404.0, 4131215.5, 51.6, 51.6, 0.0); (722381.1, 4131225.5, 51.6, 51.6, 0.0);
(722358.2, 4131235.4, 51.7, 51.7, 0.0); (722335.2, 4131245.3, 51.7, 51.7, 0.0);
(722312.3, 4131255.2, 51.5, 51.5, 0.0); (722289.3, 4131265.2, 51.6, 51.6, 0.0);

```
     ( 722266.4, 4131275.1,      51.6,      51.6,       0.0);         ( 722243.4,
4131285.0,      51.2,      51.2,       0.0);
     ( 722220.5, 4131295.0,      51.4,      51.4,       0.0);         ( 722197.6,
4131304.9,      51.4,      51.4,       0.0);
     ( 722174.6, 4131314.8,      51.4,      51.4,       0.0);         ( 722151.7,
4131324.8,      51.6,      51.6,       0.0);
     ( 722128.7, 4131334.7,      51.3,      51.3,       0.0);         ( 722148.9,
4131034.6,      52.3,      52.3,       0.0);
     ( 722171.9, 4131024.8,      52.5,      52.5,       0.0);         ( 722194.9,
4131015.1,      52.5,      52.5,       0.0);
     ( 722218.0, 4131005.3,      52.6,      52.6,       0.0);         ( 722241.0,
4130995.6,      52.7,      52.7,       0.0);
     ( 722264.0, 4130985.8,      52.7,      52.7,       0.0);         ( 722287.0,
4130976.1,      52.8,      52.8,       0.0);
     ( 722310.0, 4130966.3,      52.8,      52.8,       0.0);         ( 722333.1,
4130956.6,      52.8,      52.8,       0.0);
     ( 722356.1, 4130946.8,      52.9,      52.9,       0.0);         ( 722379.1,
4130937.1,      52.8,      52.8,       0.0);
     ( 722402.1, 4130927.3,      52.8,      52.8,       0.0);         ( 722418.0,
4130974.9,      53.2,      53.2,       0.0);
     ( 722395.0, 4130984.7,      53.3,      53.3,       0.0);         ( 722372.0,
4130994.4,      53.2,      53.2,       0.0);
     ( 722348.9, 4131004.2,      53.2,      53.2,       0.0);         ( 722325.9,
4131013.9,      53.2,      53.2,       0.0);
     ( 722302.9, 4131023.7,      53.1,      53.1,       0.0);         ( 722279.9,
4131033.4,      53.2,      53.2,       0.0);
     ( 722256.8, 4131043.2,      53.1,      53.1,       0.0);         ( 722233.8,
4131052.9,      53.2,      53.2,       0.0);
     ( 722210.8, 4131062.6,      53.2,      53.2,       0.0);         ( 722187.8,
4131072.4,      53.0,      53.0,       0.0);
     ( 721461.3, 4131276.7,      49.0,      49.0,       0.0);         ( 721484.2,
4131266.7,      48.9,      48.9,       0.0);
     ( 721507.1, 4131256.7,      48.8,      48.8,       0.0);         ( 721530.1,
4131246.7,      48.7,      48.7,       0.0);
     ( 721553.0, 4131236.8,      48.7,      48.7,       0.0);         ( 721575.9,
4131226.8,      48.7,      48.7,       0.0);
     ( 721598.8, 4131216.8,      48.9,      48.9,       0.0);         ( 721621.7,
4131206.8,      48.9,      48.9,       0.0);
     ( 721644.7, 4131196.8,      48.8,      48.8,       0.0);         ( 721667.6,
4131186.8,      49.0,      49.0,       0.0);
     ( 721690.5, 4131176.8,      49.0,      49.0,       0.0);         ( 721713.4,
4131166.8,      49.1,      49.1,       0.0);
     ( 721736.3, 4131156.9,      49.6,      49.6,       0.0);         ( 721759.2,
4131146.9,      49.7,      49.7,       0.0);
     ( 721782.2, 4131136.9,      49.8,      49.8,       0.0);         ( 721805.1,
4131126.9,      50.1,      50.1,       0.0);
     ( 721828.0, 4131116.9,      50.3,      50.3,       0.0);         ( 721850.9,
4131106.9,      50.3,      50.3,       0.0);
     ( 721873.8, 4131096.9,      50.7,      50.7,       0.0);         ( 721896.8,
4131086.9,      50.8,      50.8,       0.0);
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(721674.4, 4131227.5, 50.4, 50.4, 0.0); (721651.5, 4131237.4, 50.2, 50.2, 0.0);
(721628.6, 4131247.4, 50.2, 50.2, 0.0); (721605.7, 4131257.4, 50.2, 50.2, 0.0);
(721582.8, 4131267.4, 49.8, 49.8, 0.0); (721559.8, 4131277.4, 49.6, 49.6, 0.0);
(721536.9, 4131287.4, 49.6, 49.6, 0.0); (721514.0, 4131297.4, 49.8, 49.8, 0.0);
(721491.1, 4131307.3, 50.1, 50.1, 0.0); (721412.4, 4131178.3, 48.4, 48.4, 0.0);
(721435.4, 4131168.4, 48.2, 48.2, 0.0); (721458.3, 4131158.5, 48.2, 48.2, 0.0);
(721481.3, 4131148.6, 48.2, 48.2, 0.0); (721504.2, 4131138.7, 48.3, 48.3, 0.0);
(721527.2, 4131128.7, 48.5, 48.5, 0.0); (721550.1, 4131118.8, 48.5, 48.5, 0.0);
(721573.1, 4131108.9, 48.5, 48.5, 0.0); (721596.0, 4131099.0, 48.5, 48.5, 0.0);
(721619.0, 4131089.1, 48.5, 48.5, 0.0); (721641.9, 4131079.2, 48.5, 48.5, 0.0);
(721664.9, 4131069.3, 48.4, 48.4, 0.0); (721687.8, 4131059.3, 48.3, 48.3, 0.0);
(721710.8, 4131049.4, 48.2, 48.2, 0.0); (721733.7, 4131039.5, 48.2, 48.2, 0.0);
(721756.7, 4131029.6, 48.4, 48.4, 0.0); (721779.6, 4131019.7, 48.5, 48.5, 0.0);
(721802.6, 4131009.8, 48.9, 48.9, 0.0); (721825.5, 4130999.9, 49.1, 49.1, 0.0);

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     ( 721848.5, 4130989.9,      49.3,      49.3,       0.0);         ( 721871.4,
4130980.0,      49.4,      49.4,       0.0);
     ( 721894.4, 4130970.1,      49.5,      49.5,       0.0);         ( 721917.3,
4130960.2,      49.9,      49.9,       0.0);
     ( 721940.3, 4130950.3,      49.7,      49.7,       0.0);         ( 721963.2,
4130940.4,      49.9,      49.9,       0.0);
     ( 721986.2, 4130930.5,      49.9,      49.9,       0.0);         ( 722009.1,
4130920.6,      49.8,      49.8,       0.0);
     ( 722032.1, 4130910.6,      50.3,      50.3,       0.0);         ( 722055.0,
4130900.7,      50.3,      50.3,       0.0);
     ( 722078.0, 4130890.8,      50.6,      50.6,       0.0);         ( 722100.9,
4130880.9,      50.9,      50.9,       0.0);
     ( 722123.9, 4130871.0,      50.9,      50.9,       0.0);         ( 722146.8,
4130861.1,      51.1,      51.1,       0.0);
     ( 722169.8, 4130851.2,      51.2,      51.2,       0.0);         ( 722192.7,
4130841.2,      51.3,      51.3,       0.0);
     ( 722215.7, 4130831.3,      51.2,      51.2,       0.0);         ( 722238.6,
4130821.4,      51.3,      51.3,       0.0);
     ( 722261.6, 4130811.5,      51.4,      51.4,       0.0);         ( 722284.5,
4130801.6,      51.5,      51.5,       0.0);
     ( 722307.5, 4130791.7,      51.4,      51.4,       0.0);         ( 722330.4,
4130781.8,      51.3,      51.3,       0.0);
     ( 722374.0, 4130839.2,      52.2,      52.2,       0.0);         ( 722351.1,
4130849.1,      52.3,      52.3,       0.0);
     ( 722328.1, 4130859.0,      52.3,      52.3,       0.0);         ( 722305.2,
4130868.9,      52.2,      52.2,       0.0);
     ( 722282.2, 4130878.8,      52.0,      52.0,       0.0);         ( 722259.3,
4130888.8,      51.9,      51.9,       0.0);
     ( 722236.3, 4130898.7,      51.8,      51.8,       0.0);         ( 722213.4,
4130908.6,      51.8,      51.8,       0.0);
     ( 722190.4, 4130918.5,      51.8,      51.8,       0.0);         ( 722167.5,
4130928.4,      51.7,      51.7,       0.0);
     ( 722144.5, 4130938.3,      51.5,      51.5,       0.0);         ( 722121.6,
4130948.2,      51.4,      51.4,       0.0);
     ( 722098.6, 4130958.1,      51.2,      51.2,       0.0);         ( 722075.7,
4130968.1,      50.8,      50.8,       0.0);
     ( 722052.7, 4130978.0,      50.6,      50.6,       0.0);         ( 722029.8,
4130987.9,      50.5,      50.5,       0.0);
     ( 722006.8, 4130997.8,      50.3,      50.3,       0.0);         ( 721983.9,
4131007.7,      50.3,      50.3,       0.0);
     ( 721960.9, 4131017.6,      50.3,      50.3,       0.0);         ( 721938.0,
4131027.5,      50.2,      50.2,       0.0);
     ( 721915.0, 4131037.5,      50.1,      50.1,       0.0);         ( 721892.1,
4131047.4,      50.3,      50.3,       0.0);
     ( 721869.1, 4131057.3,      50.1,      50.1,       0.0);         ( 721846.2,
4131067.2,      50.0,      50.0,       0.0);
     ( 721823.2, 4131077.1,      49.7,      49.7,       0.0);         ( 721800.3,
4131087.0,      49.6,      49.6,       0.0);
     ( 721777.3, 4131096.9,      49.3,      49.3,       0.0);         ( 721754.4,
4131106.8,      48.9,      48.9,       0.0);
```

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     ( 721731.4, 4131116.8,      48.7,      48.7,       0.0);         ( 721708.5,
4131126.7,      48.5,      48.5,       0.0);
     ( 721685.5, 4131136.6,      48.3,      48.3,       0.0);         ( 721662.6,
4131146.5,      48.3,      48.3,       0.0);
     ( 721639.6, 4131156.4,      48.3,      48.3,       0.0);         ( 721616.7,
4131166.3,      48.2,      48.2,       0.0);
     ( 721593.7, 4131176.2,      48.3,      48.3,       0.0);         ( 721570.8,
4131186.2,      48.2,      48.2,       0.0);
     ( 721547.8, 4131196.1,      48.2,      48.2,       0.0);         ( 721524.9,
4131206.0,      48.3,      48.3,       0.0);
     ( 721501.9, 4131215.9,      48.4,      48.4,       0.0);         ( 721479.0,
4131225.8,      48.5,      48.5,       0.0);
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 721456.0, 4131235.7,      48.6,      48.6,       0.0);         ( 721024.6,
4133243.0,      49.2,      49.2,       0.0);
     ( 720598.4, 4133479.0,      48.9,      48.9,       0.0);

 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                          (METERS/SEC)

                                                  1.54,   3.09,   5.14,   8.23,
10.80,
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                    PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                     *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file:   ..\MERECED MET\MERCED_18-22.SFC
                 Met Version:  21112
   Profile file:   ..\MERECED MET\MERCED_18-22.PFL

   Surface format: FREE

   Profile format: FREE

   Surface station no.:    23257                 Upper air station no.:    23230
                 Name: UNKNOWN                                       Name:
OAKLAND/WSO_AP
                 Year:   2018                                        Year:   2018

 First 24 hours of scalar data
 YR MO DY JDY HR     H0     U*     W*  DT/DZ ZICNV ZIMCH  M-O LEN    Z0  BOWEN
ALBEDO  REF WS   WD     HT  REF TA     HT
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
 18 01 01   1 01   -6.1  0.099 -9.000 -9.000 -999.   74.     14.3  0.02   0.81
1.00    1.76  296.   10.0  280.9    2.0
 18 01 01   1 02   -8.8  0.127 -9.000 -9.000 -999.  108.     21.0  0.09   0.81
1.00    1.64  334.   10.0  279.2    2.0
```

```
 18 01 01   1 03   -2.7  0.068 -9.000 -9.000 -999.   43.     10.4  0.02   0.81
1.00    1.14  305.   10.0  278.8    2.0
 18 01 01   1 04   -2.8  0.069 -9.000 -9.000 -999.   43.     10.3  0.01   0.81
1.00    1.18  211.   10.0  277.5    2.0
 18 01 01   1 05   -5.5  0.093 -9.000 -9.000 -999.   68.     13.2  0.02   0.81
1.00    1.67  246.   10.0  275.9    2.0
 18 01 01   1 06   -1.6  0.058 -9.000 -9.000 -999.   34.     11.4  0.02   0.81
1.00    0.77  241.   10.0  275.9    2.0
 18 01 01   1 07   -3.2  0.072 -9.000 -9.000 -999.   47.     10.7  0.02   0.81
1.00    1.26  258.   10.0  275.9    2.0
 18 01 01   1 08   -4.0  0.085 -9.000 -9.000 -999.   59.     14.0  0.07   0.81
0.69    1.14   87.   10.0  274.2    2.0
 18 01 01   1 09    2.5  0.149  0.104  0.006   17.  138.   -121.6  0.07   0.81
0.37    1.74   71.   10.0  279.9    2.0
 18 01 01   1 10   45.2  0.176  0.571  0.006  150.  178.    -11.0  0.10   0.81
0.27    1.59   58.   10.0  283.1    2.0
 18 01 01   1 11   77.3  0.207  0.989  0.015  455.  227.    -10.5  0.09   0.81
0.23    1.89  355.   10.0  286.4    2.0
 18 01 01   1 12   94.6  0.331  1.123  0.017  544.  457.    -34.8  0.14   0.81
0.21    3.07    8.   10.0  288.1    2.0
 18 01 01   1 13   96.6  0.223  1.184  0.018  623.  259.    -10.4  0.09   0.81
0.21    2.03  338.   10.0  289.9    2.0
 18 01 01   1 14   82.7  0.216  1.165  0.019  692.  242.    -11.1  0.09   0.81
0.22    1.99  338.   10.0  290.4    2.0
 18 01 01   1 15   54.2  0.136  1.026  0.019  721.  122.     -4.2  0.02   0.81
0.26    1.65  326.   10.0  290.9    2.0
 18 01 01   1 16   13.3  0.152  0.644  0.019  724.  142.    -23.9  0.02   0.81
0.35    2.18  252.   10.0  290.4    2.0
 18 01 01   1 17   -7.9  0.118 -9.000 -9.000 -999.   97.     18.5  0.02   0.81
0.60    2.06  278.   10.0  288.1    2.0
 18 01 01   1 18   -6.3  0.101 -9.000 -9.000 -999.   77.     14.7  0.02   0.81
1.00    1.79  276.   10.0  285.9    2.0
 18 01 01   1 19   -5.1  0.090 -9.000 -9.000 -999.   65.     13.0  0.02   0.81
1.00    1.62  246.   10.0  283.8    2.0
 18 01 01   1 20   -1.9  0.061 -9.000 -9.000 -999.   36.     10.5  0.01   0.81
1.00    0.92  152.   10.0  280.9    2.0
 18 01 01   1 21   -7.3  0.111 -9.000 -9.000 -999.   89.     17.1  0.04   0.81
1.00    1.74  111.   10.0  279.9    2.0
 18 01 01   1 22   -5.9  0.102 -9.000 -9.000 -999.   79.     16.6  0.07   0.81
1.00    1.40   74.   10.0  281.4    2.0
 18 01 01   1 23   -5.0  0.088 -9.000 -9.000 -999.   63.     12.5  0.01   0.81
1.00    1.64  122.   10.0  280.9    2.0
 18 01 01   1 24   -7.1  0.113 -9.000 -9.000 -999.   91.     18.4  0.07   0.81
1.00    1.54   86.   10.0  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01   10.0 1  296.    1.76   281.0   99.0  -99.00  -99.00
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	721117.14	721142.14	721167.14	721192.14	721217.14	721242.14	721267.14	721292.14	721317.14	
4132640.52	0.00216	0.00210	0.00205	0.00202	0.00199	0.00197	0.00195	0.00194	0.00192	
4132615.52	0.00230	0.00219	0.00211	0.00205	0.00199	0.00195	0.00192	0.00189	0.00187	
4132590.52	0.00252	0.00234	0.00220	0.00210	0.00202	0.00196	0.00191	0.00187	0.00183	
4132565.52	0.00282	0.00254	0.00234	0.00219	0.00207	0.00198	0.00191	0.00186	0.00181	
4132540.52	0.00322	0.00279	0.00251	0.00230	0.00215	0.00203	0.00194	0.00187	0.00181	
4132515.52	0.00375	0.00312	0.00273	0.00245	0.00225	0.00210	0.00198	0.00190	0.00182	
4132490.52	0.00445	0.00355	0.00301	0.00264	0.00239	0.00220	0.00205	0.00194	0.00185	
4132465.52	0.00529	0.00410	0.00337	0.00290	0.00257	0.00233	0.00215	0.00201	0.00190	
4132440.52	0.00627	0.00479	0.00386	0.00324	0.00281	0.00251	0.00228	0.00210	0.00196	
4132415.52	0.00753	0.00569	0.00448	0.00367	0.00312	0.00272	0.00243	0.00221	0.00204	
4132390.52	0.00942	0.00685	0.00524	0.00419	0.00348					

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  0.00298      0.00262      0.00235      0.00214
  4132365.52 |       0.01226      0.00833      0.00615      0.00479      0.00389
  0.00327      0.00283      0.00250      0.00226
  4132340.52 |       0.01605      0.01022      0.00721      0.00546      0.00435
  0.00359      0.00306      0.00268      0.00239
  4132315.52 |       0.01986      0.01234      0.00843      0.00622      0.00485
  0.00395      0.00332      0.00287      0.00253
  4132290.52 |       0.02355      0.01452      0.00975      0.00706      0.00541
  0.00434      0.00361      0.00308      0.00269
  4132265.52 |       0.02609      0.01646      0.01107      0.00794      0.00602
  0.00477      0.00392      0.00331      0.00287
  4132240.52 |       0.02721      0.01784      0.01221      0.00879      0.00664
  0.00522      0.00426      0.00357      0.00307
  4132215.52 |       0.02763      0.01863      0.01307      0.00954      0.00723
  0.00568      0.00461      0.00384      0.00328
  4132190.52 |       0.02763      0.01903      0.01365      0.01013      0.00776
  0.00612      0.00497      0.00413      0.00351
  4132165.52 |       0.02733      0.01918      0.01402      0.01059      0.00822
  0.00653      0.00532      0.00442      0.00375
  4132140.52 |       0.02718      0.01925      0.01427      0.01094      0.00860
  0.00691      0.00565      0.00471      0.00400
  4132115.52 |       0.02760      0.01946      0.01452      0.01125      0.00894
  0.00724      0.00597      0.00500      0.00425
  4132090.52 |       0.02882      0.02001      0.01487      0.01157      0.00926
  0.00757      0.00628      0.00529      0.00451
  4132065.52 |       0.03124      0.02111      0.01548      0.01199      0.00963
  0.00790      0.00660      0.00558      0.00478
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                X-COORD (METERS)
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(METERS)	721342.14	721367.14	721392.14	721417.14	721442.14	721467.14	721492.14	721517.14	721542.14
4132640.52	0.00191	0.00191	0.00190	0.00190	0.00191	0.00192	0.00194	0.00197	0.00200
4132615.52	0.00185	0.00183	0.00182	0.00181	0.00181	0.00181	0.00182	0.00184	0.00185
4132590.52	0.00181	0.00178	0.00176	0.00175	0.00174	0.00173	0.00173	0.00173	0.00174
4132565.52	0.00178	0.00175	0.00172	0.00170	0.00168	0.00166	0.00165	0.00165	0.00165
4132540.52	0.00176	0.00172	0.00169	0.00166	0.00164	0.00161	0.00160	0.00158	0.00157
4132515.52	0.00177	0.00171	0.00167	0.00163	0.00160	0.00158	0.00155	0.00153	0.00152
4132490.52	0.00178	0.00172	0.00166	0.00162	0.00158	0.00155	0.00152	0.00150	0.00148
4132465.52	0.00181	0.00173	0.00167	0.00162	0.00157	0.00153	0.00150	0.00147	0.00144
4132440.52	0.00185	0.00176	0.00169	0.00162	0.00157	0.00152	0.00148	0.00145	0.00142
4132415.52	0.00191	0.00180	0.00171	0.00164	0.00158	0.00152	0.00147	0.00143	0.00140
4132390.52	0.00198	0.00185	0.00175	0.00166	0.00159	0.00153	0.00147	0.00143	0.00139
4132365.52	0.00207	0.00192	0.00179	0.00169	0.00161	0.00154	0.00148	0.00143	0.00138
4132340.52	0.00216	0.00199	0.00185	0.00173	0.00164	0.00156	0.00149	0.00143	0.00139
4132315.52	0.00227	0.00207	0.00191	0.00178	0.00168	0.00159	0.00151	0.00145	0.00139
4132290.52	0.00240	0.00217	0.00199	0.00184	0.00172	0.00162	0.00154	0.00147	0.00141
4132265.52	0.00253	0.00228	0.00207	0.00191	0.00178	0.00166	0.00157	0.00149	0.00143
4132240.52	0.00269	0.00240	0.00217	0.00199	0.00184	0.00172	0.00161	0.00153	0.00145
4132215.52	0.00286	0.00254	0.00228	0.00208	0.00191	0.00178	0.00166	0.00157	0.00149
4132190.52	0.00305	0.00269	0.00240	0.00218	0.00200	0.00185	0.00172	0.00162	0.00153
4132165.52	0.00324	0.00285	0.00254	0.00229	0.00209	0.00193	0.00179	0.00167	0.00157
4132140.52	0.00345	0.00303	0.00269	0.00242	0.00220	0.00202	0.00186	0.00174	0.00163
4132115.52	0.00367	0.00321	0.00285	0.00256	0.00232	0.00212	0.00196	0.00181	0.00170
4132090.52	0.00390	0.00341	0.00302	0.00271	0.00245				

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                    INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                  PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                  PAREA12   ,

                                     *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF DPM   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 721567.14   721592.14   721617.14   721642.14   721667.14
721692.14   721717.14   721742.14   721767.14
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- -

  4132640.52 | 0.00205   0.00210   0.00215   0.00223   0.00233
  0.00247   0.00264   0.00285   0.00306
  4132615.52 | 0.00188   0.00191   0.00195   0.00199   0.00206
  0.00215   0.00226   0.00239   0.00252
  4132590.52 | 0.00175   0.00176   0.00179   0.00182   0.00186
  0.00192   0.00199   0.00207   0.00215
  4132565.52 | 0.00165   0.00165   0.00167   0.00169   0.00171
  0.00175   0.00179   0.00184   0.00190
  4132540.52 | 0.00157   0.00157   0.00157   0.00158   0.00160
  0.00161   0.00164   0.00167   0.00171
  4132515.52 | 0.00151   0.00150   0.00150   0.00150   0.00150
  0.00151   0.00153   0.00154   0.00156
  4132490.52 | 0.00146   0.00145   0.00144   0.00143   0.00143
  0.00143   0.00144   0.00145   0.00145
  4132465.52 | 0.00142   0.00140   0.00139   0.00138   0.00137
  0.00137   0.00137   0.00137   0.00137
  4132440.52 | 0.00139   0.00137   0.00135   0.00134   0.00133
  0.00132   0.00131   0.00131   0.00130
  4132415.52 | 0.00137   0.00134   0.00132   0.00130   0.00129

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  0.00128      0.00127      0.00126      0.00125
  4132390.52 |       0.00135      0.00132      0.00130      0.00128      0.00126
  0.00124      0.00123      0.00122      0.00121
  4132365.52 |       0.00135      0.00131      0.00128      0.00126      0.00124
  0.00122      0.00120      0.00119      0.00117
  4132340.52 |       0.00134      0.00131      0.00127      0.00125      0.00122
  0.00120      0.00118      0.00116      0.00115
  4132315.52 |       0.00135      0.00131      0.00127      0.00124      0.00121
  0.00119      0.00117      0.00115      0.00113
  4132290.52 |       0.00136      0.00131      0.00127      0.00124      0.00121
  0.00118      0.00116      0.00114      0.00111
  4132265.52 |       0.00137      0.00132      0.00128      0.00124      0.00121
  0.00118      0.00115      0.00113      0.00111
  4132240.52 |       0.00139      0.00134      0.00129      0.00125      0.00121
  0.00118      0.00115      0.00113      0.00110
  4132215.52 |       0.00142      0.00136      0.00131      0.00126      0.00123
  0.00119      0.00116      0.00113      0.00110
  4132190.52 |       0.00145      0.00139      0.00133      0.00128      0.00124
  0.00120      0.00117      0.00114      0.00111
  4132165.52 |       0.00149      0.00142      0.00136      0.00131      0.00126
  0.00122      0.00119      0.00115      0.00112
  4132140.52 |       0.00154      0.00146      0.00140      0.00134      0.00129
  0.00125      0.00121      0.00117      0.00114
  4132115.52 |       0.00160      0.00151      0.00144      0.00138      0.00132
  0.00128      0.00123      0.00119      0.00116
  4132090.52 |       0.00166      0.00157      0.00149      0.00143      0.00137
  0.00131      0.00126      0.00122      0.00118
  4132065.52 |       0.00174      0.00164      0.00155      0.00148      0.00141
  0.00135      0.00130      0.00125      0.00121
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                    PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **
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Y-COORD (METERS)	X-COORD (METERS)		
	721792.14	721817.14	721842.14
4132640.52	0.00322	0.00321	0.00293
4132615.52	0.00263	0.00265	0.00252
4132590.52	0.00223	0.00225	0.00219
4132565.52	0.00194	0.00196	0.00193
4132540.52	0.00173	0.00175	0.00173
4132515.52	0.00158	0.00159	0.00158
4132490.52	0.00146	0.00147	0.00146
4132465.52	0.00137	0.00137	0.00136
4132440.52	0.00130	0.00130	0.00129
4132415.52	0.00124	0.00124	0.00122
4132390.52	0.00120	0.00119	0.00117
4132365.52	0.00116	0.00115	0.00114
4132340.52	0.00113	0.00112	0.00110
4132315.52	0.00111	0.00110	0.00108
4132290.52	0.00110	0.00108	0.00106
4132265.52	0.00109	0.00107	0.00105
4132240.52	0.00108	0.00106	0.00104
4132215.52	0.00108	0.00106	0.00103
4132190.52	0.00108	0.00106	0.00103
4132165.52	0.00109	0.00106	0.00104
4132140.52	0.00111	0.00108	0.00105
4132115.52	0.00112	0.00109	0.00106
4132090.52	0.00114	0.00111	0.00108
4132065.52	0.00117	0.00114	0.00110

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 ,
PAREA12 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3

**

Y-COORD (METERS)	X-COORD (METERS)									
	721122.34	721147.34	721172.34	721197.34	721222.34	721247.34	721272.34	721297.34	721322.34	
4133148.24	0.00499	0.00411	0.00346	0.00297	0.00258	0.00227	0.00202	0.00182	0.00165	
4133123.24	0.00704	0.00555	0.00450	0.00374	0.00317	0.00274	0.00240	0.00213	0.00191	
4133098.24	0.01095	0.00808	0.00622	0.00496	0.00406	0.00341	0.00293	0.00255	0.00225	
4133073.24	0.02307	0.01336	0.00945	0.00709	0.00554	0.00448	0.00372	0.00316	0.00274	
4133048.24	0.02419	0.02866	0.01823	0.01151	0.00833	0.00634	0.00502	0.00412	0.00347	
4133023.24	0.01421	0.01673	0.02337	0.02612	0.01528	0.01004	0.00735	0.00574	0.00466	
4132998.24	0.01026	0.01091	0.01253	0.01533	0.02126	0.02214	0.01264	0.00888	0.00680	
4132973.24	0.00770	0.00806	0.00870	0.00984	0.01165	0.01535	0.02389	0.02087	0.01183	
4132948.24	0.00602	0.00630	0.00662	0.00714	0.00798	0.00940	0.01178	0.01533	0.02229	
4132923.24	0.00488	0.00511	0.00532	0.00559	0.00600	0.00664	0.00765	0.00913	0.01117	
4132898.24	0.00407	0.00426	0.00442	0.00459	0.00481	0.00514	0.00563	0.00633	0.00729	
4132873.24	0.00348	0.00364	0.00377	0.00390	0.00403	0.00421	0.00448	0.00485	0.00534	
4132848.24	0.00304	0.00317	0.00328	0.00338	0.00348	0.00359	0.00375	0.00395	0.00423	
4132823.24	0.00271	0.00282	0.00292	0.00300	0.00307	0.00315	0.00325	0.00337	0.00353	
4132798.24	0.00246	0.00255	0.00263	0.00271	0.00277	0.00282	0.00289	0.00296	0.00306	
4132773.24	0.00228	0.00235	0.00242	0.00248	0.00253	0.00257	0.00261	0.00266	0.00272	
4132748.24	0.00216	0.00221	0.00226	0.00230	0.00234	0.00237	0.00240	0.00244	0.00247	
4132723.24	0.00208	0.00211	0.00214	0.00217	0.00220	0.00222	0.00224	0.00226	0.00229	
4132698.24	0.00204	0.00205	0.00207	0.00208	0.00210	0.00211	0.00212	0.00213	0.00214	
4132673.24	0.00205	0.00204	0.00204	0.00203	0.00203	0.00203	0.00203	0.00203	0.00203	
4132648.24	0.00211	0.00207	0.00204	0.00201	0.00200	0.00198	0.00196	0.00195	0.00194	

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	721347.34	721372.34	721397.34	721422.34	721447.34	721472.34	721497.34	721522.34	721547.34	
4133148.24	0.00150	0.00138	0.00127	0.00118	0.00109	0.00102	0.00095	0.00088	0.00083	
4133123.24	0.00172	0.00157	0.00143	0.00132	0.00122	0.00113	0.00105	0.00097	0.00091	
4133098.24	0.00201	0.00181	0.00164	0.00150	0.00137	0.00127	0.00117	0.00108	0.00100	
4133073.24	0.00241	0.00214	0.00192	0.00174	0.00158	0.00144	0.00132	0.00122	0.00113	
4133048.24	0.00298	0.00261	0.00230	0.00206	0.00185	0.00168	0.00153	0.00140	0.00128	
4133023.24	0.00389	0.00331	0.00287	0.00252	0.00223	0.00200	0.00180	0.00164	0.00149	
4132998.24	0.00543	0.00447	0.00376	0.00322	0.00280	0.00247	0.00220	0.00197	0.00177	
4132973.24	0.00863	0.00668	0.00537	0.00442	0.00373	0.00320	0.00279	0.00246	0.00218	
4132948.24	0.02002	0.01181	0.00866	0.00673	0.00539	0.00444	0.00374	0.00322	0.00281	
4132923.24	0.01442	0.02142	0.02076	0.01225	0.00883	0.00680	0.00545	0.00452	0.00383	
4132898.24	0.00863	0.01064	0.01385	0.02064	0.02137	0.01286	0.00899	0.00698	0.00567	

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  4132873.24 |       0.00600      0.00693      0.00827      0.01028      0.01320
  0.01721      0.02088      0.01386      0.00962
  4132848.24 |       0.00459      0.00507      0.00573      0.00667      0.00795
  0.00956      0.01149      0.01418      0.01961
  4132823.24 |       0.00374      0.00401      0.00437      0.00485      0.00550
  0.00631      0.00725      0.00839      0.00996
  4132798.24 |       0.00318      0.00334      0.00355      0.00382      0.00418
  0.00462      0.00514      0.00573      0.00647
  4132773.24 |       0.00280      0.00290      0.00302      0.00318      0.00339
  0.00365      0.00395      0.00429      0.00470
  4132748.24 |       0.00252      0.00258      0.00265      0.00275      0.00288
  0.00304      0.00322      0.00343      0.00367
  4132723.24 |       0.00231      0.00235      0.00239      0.00245      0.00253
  0.00263      0.00274      0.00288      0.00303
  4132698.24 |       0.00215      0.00217      0.00219      0.00223      0.00228
  0.00234      0.00241      0.00250      0.00260
  4132673.24 |       0.00203      0.00204      0.00205      0.00206      0.00209
  0.00213      0.00217      0.00223      0.00229
  4132648.24 |       0.00194      0.00193      0.00193      0.00194      0.00195
  0.00197      0.00199      0.00203      0.00207
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                    PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721572.34    721597.34    721622.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |       0.00078      0.00073      0.00069
  4133123.24 |       0.00085      0.00079      0.00074
  4133098.24 |       0.00093      0.00087      0.00081
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  4133073.24 |       0.00104      0.00096      0.00089
  4133048.24 |       0.00118      0.00108      0.00100
  4133023.24 |       0.00136      0.00124      0.00113
  4132998.24 |       0.00160      0.00145      0.00132
  4132973.24 |       0.00195      0.00175      0.00157
  4132948.24 |       0.00247      0.00218      0.00193
  4132923.24 |       0.00329      0.00286      0.00249
  4132898.24 |       0.00473      0.00401      0.00342
  4132873.24 |       0.00758      0.00619      0.00513
  4132848.24 |       0.01791      0.01137      0.00871
  4132823.24 |       0.01247      0.01741      0.02076
  4132798.24 |       0.00753      0.00910      0.01152
  4132773.24 |       0.00521      0.00593      0.00700
  4132748.24 |       0.00396      0.00434      0.00489
  4132723.24 |       0.00321      0.00343      0.00374
  4132698.24 |       0.00271      0.00285      0.00303
  4132673.24 |       0.00237      0.00246      0.00257
  4132648.24 |       0.00212      0.00218      0.00225
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                     *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     718867.38    718892.38    718917.38    718942.38    718967.38
718992.38    719017.38    719042.38    719067.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133416.48 |       0.00023      0.00024      0.00025      0.00026      0.00027
  0.00028      0.00029      0.00030      0.00031
  4133391.48 |       0.00023      0.00024      0.00025      0.00026      0.00027
  0.00028      0.00029      0.00030      0.00031
```

4133366.48 | 0.00023 0.00024 0.00024 0.00025 0.00026
0.00027 0.00029 0.00030 0.00031
4133341.48 | 0.00022 0.00023 0.00024 0.00025 0.00026
0.00027 0.00028 0.00030 0.00031
4133316.48 | 0.00022 0.00023 0.00024 0.00025 0.00026
0.00027 0.00028 0.00029 0.00031
4133291.48 | 0.00022 0.00022 0.00023 0.00024 0.00025
0.00027 0.00028 0.00029 0.00030
4133266.48 | 0.00021 0.00022 0.00023 0.00024 0.00025
0.00026 0.00027 0.00029 0.00030
4133241.48 | 0.00021 0.00022 0.00023 0.00024 0.00025
0.00026 0.00027 0.00028 0.00030
4133216.48 | 0.00020 0.00021 0.00022 0.00023 0.00024
0.00025 0.00027 0.00028 0.00030
4133191.48 | 0.00020 0.00020 0.00021 0.00022 0.00024
0.00025 0.00026 0.00028 0.00029
4133166.48 | 0.00019 0.00020 0.00021 0.00022 0.00023
0.00024 0.00025 0.00027 0.00028
4133141.48 | 0.00018 0.00019 0.00020 0.00021 0.00022
0.00024 0.00025 0.00026 0.00028
4133116.48 | 0.00018 0.00019 0.00020 0.00021 0.00022
0.00023 0.00024 0.00026 0.00027
4133091.48 | 0.00017 0.00018 0.00019 0.00020 0.00021
0.00022 0.00023 0.00025 0.00026
4133066.48 | 0.00017 0.00017 0.00018 0.00019 0.00020
0.00021 0.00023 0.00024 0.00025
4133041.48 | 0.00016 0.00017 0.00018 0.00018 0.00019
0.00020 0.00022 0.00023 0.00025
4133016.48 | 0.00015 0.00016 0.00017 0.00018 0.00019
0.00020 0.00021 0.00022 0.00024
4132991.48 | 0.00015 0.00015 0.00016 0.00017 0.00018
0.00019 0.00020 0.00021 0.00023
4132966.48 | 0.00014 0.00015 0.00015 0.00016 0.00017
0.00018 0.00019 0.00020 0.00021
4132941.48 | 0.00014 0.00014 0.00015 0.00016 0.00016
0.00017 0.00018 0.00019 0.00020
4132916.48 | 0.00013 0.00014 0.00014 0.00015 0.00016
0.00016 0.00017 0.00018 0.00019
4132891.48 | 0.00013 0.00013 0.00014 0.00014 0.00015
0.00016 0.00016 0.00017 0.00018
4132866.48 | 0.00012 0.00013 0.00013 0.00014 0.00014
0.00015 0.00016 0.00016 0.00017
4132841.48 | 0.00012 0.00012 0.00013 0.00013 0.00014
0.00014 0.00015 0.00016 0.00017
4132816.48 | 0.00011 0.00012 0.00012 0.00012 0.00013
0.00014 0.00014 0.00015 0.00016
4132791.48 | 0.00011 0.00011 0.00012 0.00012 0.00013
0.00013 0.00014 0.00014 0.00015
4132766.48 | 0.00010 0.00011 0.00011 0.00012 0.00012
0.00013 0.00013 0.00014 0.00014

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	719092.38	719117.38	719142.38	719167.38	719192.38	719217.38	719242.38	719267.38	719292.38
4133416.48	0.00032	0.00033	0.00034	0.00036	0.00037	0.00038	0.00039	0.00041	0.00042
4133391.48	0.00032	0.00033	0.00035	0.00036	0.00037	0.00039	0.00040	0.00042	0.00043
4133366.48	0.00032	0.00033	0.00035	0.00036	0.00038	0.00039	0.00041	0.00042	0.00044
4133341.48	0.00032	0.00034	0.00035	0.00037	0.00038	0.00040	0.00042	0.00043	0.00045
4133316.48	0.00032	0.00034	0.00035	0.00037	0.00038	0.00040	0.00042	0.00044	0.00046
4133291.48	0.00032	0.00034	0.00035	0.00037	0.00039	0.00041	0.00043	0.00045	0.00047
4133266.48	0.00032	0.00033	0.00035	0.00037	0.00039	0.00041	0.00043	0.00046	0.00048
4133241.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133216.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133191.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133166.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133141.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133116.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133091.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133066.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133041.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4133016.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132991.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132966.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132941.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132916.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132891.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132866.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132841.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132816.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132791.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132766.48	0.00031	0.00033	0.00035	0.00037	0.00039	0.00041	0.00044	0.00046	0.00049
4132741.48	0.00010	0.00010	0.00011	0.00011	0.00012	0.00012	0.00013	0.00013	0.00014
4132716.48	0.00010	0.00010	0.00010	0.00011	0.00011	0.00012	0.00012	0.00013	0.00013
4132691.48	0.00010	0.00010	0.00010	0.00010	0.00011	0.00011	0.00012	0.00012	0.00013

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 4133216.48 |       0.00031      0.00033      0.00035      0.00037      0.00039
 0.00041      0.00044      0.00047      0.00050
 4133191.48 |       0.00031      0.00033      0.00034      0.00037      0.00039
 0.00041      0.00044      0.00047      0.00050
 4133166.48 |       0.00030      0.00032      0.00034      0.00036      0.00039
 0.00041      0.00044      0.00047      0.00051
 4133141.48 |       0.00030      0.00031      0.00034      0.00036      0.00038
 0.00041      0.00044      0.00048      0.00051
 4133116.48 |       0.00029      0.00031      0.00033      0.00035      0.00038
 0.00041      0.00044      0.00047      0.00051
 4133091.48 |       0.00028      0.00030      0.00032      0.00034      0.00037
 0.00040      0.00043      0.00047      0.00051
 4133066.48 |       0.00027      0.00029      0.00031      0.00034      0.00036
 0.00039      0.00043      0.00047      0.00051
 4133041.48 |       0.00026      0.00028      0.00030      0.00033      0.00035
 0.00038      0.00042      0.00046      0.00050
 4133016.48 |       0.00025      0.00027      0.00029      0.00031      0.00034
 0.00037      0.00041      0.00045      0.00050
 4132991.48 |       0.00024      0.00026      0.00028      0.00030      0.00033
 0.00036      0.00039      0.00044      0.00048
 4132966.48 |       0.00023      0.00025      0.00027      0.00029      0.00031
 0.00034      0.00038      0.00042      0.00047
 4132941.48 |       0.00022      0.00023      0.00025      0.00027      0.00030
 0.00033      0.00036      0.00040      0.00045
 4132916.48 |       0.00021      0.00022      0.00024      0.00026      0.00028
 0.00031      0.00034      0.00038      0.00043
 4132891.48 |       0.00020      0.00021      0.00023      0.00024      0.00027
 0.00029      0.00032      0.00036      0.00041
 4132866.48 |       0.00019      0.00020      0.00021      0.00023      0.00025
 0.00028      0.00030      0.00034      0.00038
 4132841.48 |       0.00018      0.00019      0.00020      0.00022      0.00024
 0.00026      0.00028      0.00032      0.00036
 4132816.48 |       0.00017      0.00018      0.00019      0.00020      0.00022
 0.00024      0.00026      0.00029      0.00033
 4132791.48 |       0.00016      0.00017      0.00018      0.00019      0.00021
 0.00022      0.00025      0.00027      0.00030
 4132766.48 |       0.00015      0.00016      0.00017      0.00018      0.00019
 0.00021      0.00023      0.00025      0.00028
 4132741.48 |       0.00014      0.00015      0.00016      0.00017      0.00018
 0.00020      0.00021      0.00023      0.00026
 4132716.48 |       0.00014      0.00015      0.00015      0.00016      0.00017
 0.00018      0.00020      0.00022      0.00024
 4132691.48 |       0.00013      0.00014      0.00015      0.00015      0.00016
 0.00017      0.00019      0.00020      0.00022
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 719317.38	719342.38	719367.38	719392.38	719417.38	719442.38	719467.38
4133416.48	0.00043	0.00045	0.00046	0.00047	0.00049	0.00050	0.00051
4133391.48	0.00045	0.00046	0.00048	0.00049	0.00050	0.00052	0.00053
4133366.48	0.00046	0.00047	0.00049	0.00051	0.00052	0.00054	0.00056
4133341.48	0.00047	0.00049	0.00051	0.00053	0.00054	0.00056	0.00058
4133316.48	0.00048	0.00050	0.00052	0.00055	0.00057	0.00059	0.00061
4133291.48	0.00049	0.00052	0.00054	0.00057	0.00059	0.00062	0.00064
4133266.48	0.00050	0.00053	0.00056	0.00059	0.00062	0.00065	0.00068
4133241.48	0.00052	0.00055	0.00058	0.00061	0.00064	0.00068	0.00071
4133216.48	0.00053	0.00056	0.00059	0.00063	0.00067	0.00071	0.00075
4133191.48	0.00054	0.00057	0.00061	0.00065	0.00070	0.00074	0.00079
4133166.48	0.00055	0.00059	0.00063	0.00068	0.00073	0.00078	0.00084
4133141.48	0.00055	0.00060	0.00065	0.00070	0.00076	0.00082	0.00089
4133116.48	0.00056	0.00061	0.00066	0.00072	0.00079	0.00086	0.00094
4133091.48	0.00056	0.00062	0.00068	0.00074	0.00082	0.00090	0.00100

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 4133066.48 |       0.00056      0.00062      0.00068      0.00076      0.00085
 0.00094      0.00105
 4133041.48 |       0.00056      0.00062      0.00069      0.00077      0.00087
 0.00098      0.00111
 4133016.48 |       0.00055      0.00062      0.00069      0.00078      0.00089
 0.00101      0.00116
 4132991.48 |       0.00054      0.00061      0.00069      0.00078      0.00090
 0.00104      0.00121
 4132966.48 |       0.00053      0.00060      0.00068      0.00078      0.00090
 0.00106      0.00124
 4132941.48 |       0.00051      0.00058      0.00066      0.00077      0.00090
 0.00106      0.00127
 4132916.48 |       0.00049      0.00056      0.00064      0.00075      0.00088
 0.00105      0.00128
 4132891.48 |       0.00046      0.00053      0.00061      0.00072      0.00086
 0.00104      0.00128
 4132866.48 |       0.00044      0.00050      0.00058      0.00069      0.00083
 0.00101      0.00125
 4132841.48 |       0.00041      0.00047      0.00055      0.00065      0.00078
 0.00096      0.00120
 4132816.48 |       0.00038      0.00043      0.00051      0.00060      0.00073
 0.00091      0.00114
 4132791.48 |       0.00034      0.00040      0.00046      0.00055      0.00067
 0.00084      0.00107
 4132766.48 |       0.00031      0.00036      0.00042      0.00049      0.00060
 0.00075      0.00097
 4132741.48 |       0.00029      0.00032      0.00037      0.00044      0.00053
 0.00066      0.00085
 4132716.48 |       0.00026      0.00029      0.00033      0.00039      0.00046
 0.00057      0.00072
 4132691.48 |       0.00024      0.00027      0.00030      0.00034      0.00040
 0.00048      0.00061
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                     INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                      *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***
```

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	720314.85	720339.85	720364.85	720389.85	720414.85	720439.85	720464.85	720489.85	720514.85	
4131895.44	0.00046	0.00046	0.00047	0.00047	0.00047	0.00048	0.00048	0.00049	0.00050	
4131869.50	0.00044	0.00044	0.00045	0.00045	0.00045	0.00046	0.00046	0.00047	0.00048	
4131843.56	0.00042	0.00043	0.00043	0.00043	0.00044	0.00044	0.00045	0.00045	0.00046	
4131817.62	0.00040	0.00041	0.00041	0.00042	0.00042	0.00043	0.00043	0.00044	0.00044	
4131791.68	0.00038	0.00039	0.00040	0.00040	0.00041	0.00041	0.00041	0.00042	0.00043	
4131765.74	0.00037	0.00037	0.00038	0.00038	0.00039	0.00039	0.00040	0.00041	0.00041	
4131739.80	0.00035	0.00036	0.00036	0.00037	0.00037	0.00038	0.00038	0.00039	0.00040	
4131713.86	0.00033	0.00034	0.00035	0.00035	0.00036	0.00037	0.00037	0.00038	0.00038	
4131687.92	0.00032	0.00033	0.00033	0.00034	0.00035	0.00035	0.00036	0.00036	0.00037	
4131661.98	0.00031	0.00031	0.00032	0.00033	0.00033	0.00034	0.00034	0.00035	0.00036	
4131636.04	0.00029	0.00030	0.00031	0.00031	0.00032	0.00033	0.00033	0.00034	0.00034	
4131610.10	0.00028	0.00029	0.00029	0.00030	0.00031	0.00031	0.00032	0.00033	0.00033	
4131584.16	0.00027	0.00027	0.00028	0.00029	0.00029	0.00030	0.00031	0.00031	0.00032	
4131558.22	0.00026	0.00026	0.00027	0.00028	0.00028	0.00029	0.00030	0.00030	0.00031	
4131532.28	0.00024	0.00025	0.00026	0.00027	0.00027	0.00028	0.00029	0.00029	0.00030	
4131506.34	0.00023	0.00024	0.00025	0.00026	0.00026	0.00027	0.00027	0.00028	0.00029	
4131480.40	0.00023	0.00023	0.00024	0.00025	0.00025	0.00026	0.00026	0.00027	0.00028	
4131454.46	0.00022	0.00022	0.00023	0.00024	0.00024	0.00025	0.00026	0.00026	0.00027	
4131428.52	0.00021	0.00021	0.00022	0.00023	0.00023	0.00024	0.00025	0.00025	0.00026	
4131402.58	0.00020	0.00021	0.00021	0.00022	0.00022	0.00023	0.00024	0.00024	0.00025	

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                   *** NETWORK ID: UCART4   ; NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 720539.85   720564.85   720589.85   720614.85   720639.85
720664.85   720689.85   720714.85   720739.85
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- -

  4131895.44 | 0.00051   0.00052   0.00054   0.00056   0.00057
  0.00060   0.00062   0.00065   0.00069
  4131869.50 | 0.00049   0.00050   0.00051   0.00053   0.00055
  0.00057   0.00059   0.00061   0.00064
  4131843.56 | 0.00047   0.00048   0.00049   0.00051   0.00052
  0.00054   0.00056   0.00058   0.00061
  4131817.62 | 0.00045   0.00046   0.00047   0.00048   0.00050
  0.00051   0.00053   0.00055   0.00058
  4131791.68 | 0.00043   0.00044   0.00045   0.00046   0.00048
  0.00049   0.00051   0.00053   0.00055
  4131765.74 | 0.00042   0.00043   0.00044   0.00045   0.00046
  0.00047   0.00049   0.00050   0.00052
  4131739.80 | 0.00040   0.00041   0.00042   0.00043   0.00044
  0.00045   0.00047   0.00048   0.00050
  4131713.86 | 0.00039   0.00040   0.00040   0.00041   0.00042
  0.00044   0.00045   0.00046   0.00048
  4131687.92 | 0.00038   0.00038   0.00039   0.00040   0.00041
  0.00042   0.00043   0.00044   0.00046
  4131661.98 | 0.00036   0.00037   0.00038   0.00038   0.00039
  0.00040   0.00042   0.00043   0.00044

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  4131636.04 |       0.00035      0.00036      0.00036      0.00037      0.00038
  0.00039      0.00040      0.00041      0.00043
  4131610.10 |       0.00034      0.00034      0.00035      0.00036      0.00037
  0.00038      0.00039      0.00040      0.00041
  4131584.16 |       0.00033      0.00033      0.00034      0.00035      0.00035
  0.00036      0.00037      0.00038      0.00039
  4131558.22 |       0.00031      0.00032      0.00033      0.00034      0.00034
  0.00035      0.00036      0.00037      0.00038
  4131532.28 |       0.00030      0.00031      0.00032      0.00032      0.00033
  0.00034      0.00035      0.00036      0.00037
  4131506.34 |       0.00029      0.00030      0.00031      0.00031      0.00032
  0.00033      0.00034      0.00035      0.00036
  4131480.40 |       0.00028      0.00029      0.00030      0.00030      0.00031
  0.00032      0.00033      0.00033      0.00034
  4131454.46 |       0.00027      0.00028      0.00029      0.00029      0.00030
  0.00031      0.00032      0.00032      0.00033
  4131428.52 |       0.00026      0.00027      0.00028      0.00028      0.00029
  0.00030      0.00030      0.00031      0.00032
  4131402.58 |       0.00026      0.00026      0.00027      0.00027      0.00028
  0.00029      0.00030      0.00030      0.00031
  4131376.64 |       0.00025      0.00025      0.00026      0.00027      0.00027
  0.00028      0.00029      0.00029      0.00030
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                    PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                  INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                  PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                  PAREA12     ,

                                     *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     720761.78    720786.78    720811.78    720836.78    720861.78
720886.78    720911.78    720936.78    720961.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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4131567.21 |       0.00040      0.00041      0.00042      0.00044      0.00046
0.00048      0.00050      0.00052      0.00055
4131542.21 |       0.00038      0.00039      0.00041      0.00042      0.00044
0.00046      0.00048      0.00050      0.00052
4131517.21 |       0.00037      0.00038      0.00039      0.00041      0.00042
0.00044      0.00046      0.00048      0.00050
4131492.21 |       0.00036      0.00037      0.00038      0.00039      0.00041
0.00042      0.00044      0.00046      0.00048
4131467.21 |       0.00035      0.00036      0.00037      0.00038      0.00039
0.00040      0.00042      0.00044      0.00046
4131442.21 |       0.00033      0.00034      0.00035      0.00036      0.00038
0.00039      0.00040      0.00042      0.00044
4131417.21 |       0.00032      0.00033      0.00034      0.00035      0.00036
0.00038      0.00039      0.00040      0.00042
4131392.21 |       0.00031      0.00032      0.00033      0.00034      0.00035
0.00036      0.00037      0.00039      0.00040
4131367.21 |       0.00030      0.00031      0.00032      0.00033      0.00034
0.00035      0.00036      0.00037      0.00039
4131342.21 |       0.00029      0.00030      0.00031      0.00032      0.00033
0.00034      0.00035      0.00036      0.00037
4131317.21 |       0.00029      0.00029      0.00030      0.00031      0.00032
0.00033      0.00034      0.00035      0.00036
4131292.21 |       0.00028      0.00028      0.00029      0.00030      0.00031
0.00032      0.00033      0.00034      0.00035
4131267.21 |       0.00027      0.00027      0.00028      0.00029      0.00030
0.00031      0.00031      0.00032      0.00034
4131242.21 |       0.00026      0.00027      0.00027      0.00028      0.00029
0.00030      0.00030      0.00031      0.00032
4131217.21 |       0.00025      0.00026      0.00027      0.00027      0.00028
0.00029      0.00030      0.00030      0.00031
4131192.21 |       0.00025      0.00025      0.00026      0.00026      0.00027
0.00028      0.00029      0.00029      0.00030
4131167.21 |       0.00024      0.00024      0.00025      0.00026      0.00026
0.00027      0.00028      0.00029      0.00029
4131142.21 |       0.00023      0.00024      0.00024      0.00025      0.00025
0.00026      0.00027      0.00028      0.00028
4131117.21 |       0.00022      0.00023      0.00024      0.00024      0.00025
0.00025      0.00026      0.00027      0.00028
4131092.21 |       0.00022      0.00022      0.00023      0.00023      0.00024
0.00025      0.00025      0.00026      0.00027
4131067.21 |       0.00021      0.00022      0.00022      0.00023      0.00023
0.00024      0.00025      0.00025      0.00026
4131042.21 |       0.00021      0.00021      0.00022      0.00022      0.00023
0.00023      0.00024      0.00025      0.00025
4131017.21 |       0.00020      0.00021      0.00021      0.00022      0.00022
0.00023      0.00023      0.00024      0.00025
4130992.21 |       0.00020      0.00020      0.00020      0.00021      0.00021
0.00022      0.00023      0.00023      0.00024
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                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                  PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                  PAREA12   ,

                                  *** NETWORK ID: UCART5   ; NETWORK TYPE: GRIDCART ***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                    **

    Y-COORD | X-COORD (METERS)
    (METERS) | 720986.78   721011.78   721036.78
 - - -

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	721041.49	721066.49	721091.49	721116.49	721141.49	721166.49	721191.49	721216.49	721241.49	
4131364.06	0.00044	0.00047	0.00049	0.00052	0.00056	0.00060	0.00064	0.00069	0.00075	
4131344.06	0.00043	0.00045	0.00047	0.00050	0.00053	0.00057	0.00061	0.00066	0.00071	
4131324.06	0.00041	0.00043	0.00046	0.00048	0.00051	0.00054	0.00058	0.00063	0.00067	
4131304.06	0.00040	0.00042	0.00044	0.00046	0.00049	0.00052	0.00056	0.00060	0.00064	
4131284.06	0.00039	0.00041	0.00042	0.00045	0.00047	0.00050	0.00053	0.00057	0.00061	
4131264.06	0.00038	0.00039	0.00041	0.00043	0.00045	0.00048	0.00051	0.00054	0.00058	
4131244.06	0.00036	0.00038	0.00040	0.00042	0.00044	0.00046	0.00049	0.00052	0.00055	
4131224.06	0.00035	0.00037	0.00038	0.00040	0.00042	0.00045	0.00047	0.00050	0.00053	
4131204.06	0.00034	0.00036	0.00037	0.00039	0.00041	0.00043	0.00045	0.00048	0.00051	
4131184.06	0.00033	0.00035	0.00036	0.00038	0.00040	0.00041	0.00044	0.00046	0.00049	
4131164.06	0.00032	0.00034	0.00035	0.00037	0.00038	0.00040	0.00042	0.00044	0.00047	
4131144.06	0.00032	0.00033	0.00034	0.00035	0.00037					

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 721266.49	721291.49	721316.49	721341.49	721366.49	721391.49	721416.49
4131364.06	0.00082	0.00089	0.00097	0.00106	0.00114	0.00123	0.00132
4131344.06	0.00077	0.00084	0.00091	0.00099	0.00107	0.00115	0.00123
4131324.06	0.00073	0.00079	0.00085	0.00092	0.00100	0.00107	0.00115
4131304.06	0.00069	0.00074	0.00080	0.00086	0.00093	0.00100	0.00107
4131284.06	0.00065	0.00070	0.00076	0.00081	0.00087	0.00094	0.00100
4131264.06	0.00062	0.00067	0.00071	0.00077	0.00082	0.00088	0.00094
4131244.06	0.00059	0.00063	0.00068	0.00073	0.00078		

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  0.00083      0.00088
  4131224.06 |       0.00056      0.00060      0.00064      0.00069      0.00073
  0.00078      0.00083
  4131204.06 |       0.00054      0.00057      0.00061      0.00065      0.00069
  0.00074      0.00079
  4131184.06 |       0.00052      0.00055      0.00058      0.00062      0.00066
  0.00070      0.00074
  4131164.06 |       0.00050      0.00053      0.00056      0.00059      0.00063
  0.00067      0.00071
  4131144.06 |       0.00048      0.00050      0.00053      0.00056      0.00060
  0.00063      0.00067
  4131124.06 |       0.00046      0.00048      0.00051      0.00054      0.00057
  0.00060      0.00064
  4131104.06 |       0.00044      0.00046      0.00049      0.00052      0.00055
  0.00058      0.00061
  4131084.06 |       0.00043      0.00045      0.00047      0.00050      0.00052
  0.00055      0.00058
  4131064.06 |       0.00041      0.00043      0.00045      0.00048      0.00050
  0.00053      0.00056
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         721792.22    4132066.34        0.00117                      721583.83
4131986.08        0.00200
         721606.81    4131976.23        0.00193                      721629.78
4131966.37        0.00187
         721652.76    4131956.52        0.00181                      721675.73
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4131946.66 0.00177
721698.71 4131936.81 0.00172 721721.69
4131926.95 0.00168
721744.66 4131917.10 0.00165 721767.64
4131907.24 0.00162
721790.61 4131897.38 0.00159 721813.59
4131887.53 0.00156
721836.56 4131877.67 0.00154 721859.54
4131867.82 0.00152
721882.51 4131857.96 0.00150 721905.49
4131848.11 0.00148
721928.46 4131838.25 0.00147 721951.44
4131828.40 0.00145
721974.42 4131818.54 0.00144 721997.39
4131808.69 0.00142
722020.37 4131798.83 0.00141 722043.34
4131788.98 0.00140
722066.32 4131779.12 0.00139 722089.29
4131769.27 0.00138
722112.27 4131759.41 0.00137 722135.24
4131749.56 0.00136
722158.22 4131739.70 0.00135 722181.20
4131729.85 0.00134
722204.17 4131719.99 0.00133 722227.15
4131710.13 0.00132
722250.12 4131700.28 0.00131 722273.10
4131690.42 0.00130
722296.07 4131680.57 0.00129 722319.05
4131670.71 0.00127
722342.02 4131660.86 0.00126 722365.00
4131651.00 0.00124
722387.97 4131641.15 0.00122 722410.95
4131631.29 0.00119
722433.93 4131621.44 0.00117 722456.90
4131611.58 0.00114
722479.88 4131601.73 0.00111 722502.85
4131591.87 0.00108
722525.83 4131582.02 0.00106 722548.80
4131572.16 0.00104
722571.78 4131562.31 0.00103 722594.75
4131552.45 0.00100
722617.73 4131542.59 0.00098 722640.71
4131532.74 0.00095
722663.68 4131522.88 0.00092 722686.66
4131513.03 0.00089
722709.63 4131503.17 0.00086 722732.61
4131493.32 0.00084
722755.58 4131483.46 0.00082 722778.56
4131473.61 0.00080
722801.53 4131463.75 0.00078 722824.51

4131453.90   0.00075
         722847.48   4131444.04   0.00073   722870.46
4131434.19   0.00070
         722893.44   4131424.33   0.00067   722916.41
4131414.48   0.00064
         722939.39   4131404.62   0.00061   722962.36
4131394.77   0.00058
         722985.34   4131384.91   0.00056   723008.31
4131375.06   0.00053
         723031.29   4131365.20   0.00051   723054.26
4131355.34   0.00049
         723077.24   4131345.49   0.00047   723100.22
4131335.63   0.00045
         723123.19   4131325.78   0.00043   723146.17
4131315.92   0.00041
         723169.14   4131306.07   0.00040   723192.12
4131296.21   0.00038
         723267.01   4131369.79   0.00033   723245.67
4131382.05   0.00034
         723222.69   4131391.91   0.00035   723199.72
4131401.76   0.00036
         723176.74   4131411.62   0.00037   723153.76
4131421.48   0.00038
         723130.79   4131431.33   0.00039   723107.81
4131441.19   0.00041

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -

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4131933.95        0.00114
         721936.06    4131943.81        0.00116                        721913.09
4131953.66        0.00117
         721890.11    4131963.52        0.00119                        721867.14
4131973.37        0.00121
         721844.16    4131983.23        0.00123                        721821.19
4131993.08        0.00125
         721798.21    4132002.94        0.00127                        721775.24
4132012.79        0.00130
         721752.26    4132022.65        0.00132                        721729.28
4132032.50        0.00135
         721706.31    4132042.36        0.00138                        721683.33
4132052.21        0.00142
         721660.36    4132062.07        0.00145                        721637.38
4132071.92        0.00150
         721841.17    4132144.72        0.00106                        721864.15
4132134.89        0.00104
         721887.14    4132125.06        0.00102                        721910.12
4132115.23        0.00100
         721933.11    4132105.40        0.00098                        721956.09
4132095.56        0.00096
         721979.08    4132085.73        0.00094                        722002.07
4132075.90        0.00093
         722025.05    4132066.07        0.00091                        722048.04
4132056.24        0.00089
         722071.02    4132046.41        0.00087                        722094.01
4132036.57        0.00086
         722116.99    4132026.74        0.00084                        722139.98
4132016.91        0.00082
         722162.97    4132007.08        0.00080                        722185.95
4131997.25        0.00079
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722208.94	4131987.42	0.00077	722231.92	4131977.58	0.00075
722254.91	4131967.75	0.00074	722277.89	4131957.92	0.00072
722300.88	4131948.09	0.00071	722323.86	4131938.26	0.00069
722346.85	4131928.43	0.00068	722369.84	4131918.60	0.00066
722392.82	4131908.76	0.00064	722415.81	4131898.93	0.00063
722438.79	4131889.10	0.00062	722461.78	4131879.27	0.00060
722484.76	4131869.44	0.00059	722507.75	4131859.61	0.00057
722530.74	4131849.77	0.00056	722553.72	4131839.94	0.00055
722576.71	4131830.11	0.00054	722599.69	4131820.28	0.00053
722622.68	4131810.45	0.00052	722645.66	4131800.62	0.00051
722668.65	4131790.78	0.00051	722691.63	4131780.95	0.00050
722714.62	4131771.12	0.00049	722737.61	4131761.29	0.00048
722760.59	4131751.46	0.00046	722783.58	4131741.63	0.00045
722806.56	4131731.79	0.00044	722829.55	4131721.96	0.00043
722852.53	4131712.13	0.00042	722875.52	4131702.30	0.00042
722898.51	4131692.47	0.00041	722921.49	4131682.64	0.00040
722944.48	4131672.80	0.00039	722967.46	4131662.97	0.00039
722990.45	4131653.14	0.00038	723013.43	4131643.31	0.00037
723036.42	4131633.48	0.00037	723059.41	4131623.65	0.00036
723082.39	4131613.82	0.00035	723105.38	4131603.98	0.00035
723128.36	4131594.15	0.00034	723151.35	4131584.32	0.00033
723174.33	4131574.49	0.00032	723197.32		

4131564.66   0.00032
         723220.30   4131554.83   0.00031   723243.29
4131544.99   0.00030
         723266.28   4131535.16   0.00030   723289.26
4131525.33   0.00029
         723316.75   4131622.34   0.00026   723293.77
4131632.17   0.00027
         723270.78   4131642.00   0.00027   723247.80
4131651.83   0.00028
         723224.81   4131661.66   0.00028   723201.82
4131671.49   0.00029
         723178.84   4131681.33   0.00029   723155.85
4131691.16   0.00030
         723132.87   4131700.99   0.00030   723109.88
4131710.82   0.00031
         723086.90   4131720.65   0.00031   723063.91
4131730.48   0.00032
         723040.93   4131740.31   0.00032   723017.94
4131750.15   0.00033
         722994.95   4131759.98   0.00033   722971.97
4131769.81   0.00034
         722948.98   4131779.64   0.00034   722926.00
4131789.47   0.00035
         722903.01   4131799.30   0.00036   722880.03
4131809.14   0.00036
         722857.04   4131818.97   0.00037   722834.05
4131828.80   0.00038
         722811.07   4131838.63   0.00039   722788.08
4131848.46   0.00039
         722765.10   4131858.29   0.00040   722742.11
4131868.13   0.00041
         722719.13   4131877.96   0.00042   722696.14
4131887.79   0.00043
         722673.16   4131897.62   0.00043   722650.17
4131907.45   0.00044
         722627.18   4131917.28   0.00045   722604.20
4131927.12   0.00046

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9

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 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722581.21    4131936.95        0.00047                        722558.23
4131946.78        0.00048
         722535.24    4131956.61        0.00049                        722512.26
4131966.44        0.00050
         722489.27    4131976.27        0.00051                        722466.28
4131986.11        0.00052
         722443.30    4131995.94        0.00053                        722420.31
4132005.77        0.00055
         722397.33    4132015.60        0.00056                        722374.34
4132025.43        0.00058
         722351.36    4132035.26        0.00059                        722328.37
4132045.09        0.00061
         722305.38    4132054.93        0.00063                        722282.40
4132064.76        0.00064
         722259.41    4132074.59        0.00066                        722236.43
4132084.42        0.00068
         722213.44    4132094.25        0.00070                        722190.46
4132104.08        0.00072
         722167.47    4132113.92        0.00074                        722144.49
4132123.75        0.00076
         722121.50    4132133.58        0.00078                        722098.51
4132143.41        0.00080
         722075.53    4132153.24        0.00082                        722052.54
4132163.07        0.00085
         722029.56    4132172.91        0.00087                        722006.57
4132182.74        0.00089
         721983.59    4132192.57        0.00091                        721960.60
4132202.40        0.00094
         721937.61    4132212.23        0.00096                        721914.63
4132222.06        0.00098
         721891.64    4132231.90        0.00100                        721853.38
4132064.29        0.00110
         721876.36    4132054.46        0.00108                        721899.34
4132044.62        0.00106
         721922.33    4132034.78        0.00105                        721945.31
4132024.94        0.00103
         721968.29    4132015.11        0.00101                        721991.28
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4132005.27        0.00100
         722014.26    4131995.43        0.00098                        722037.24
4131985.59        0.00096
         722060.23    4131975.75        0.00095                        722083.21
4131965.92        0.00093
         722106.19    4131956.08        0.00092                        722129.17
4131946.24        0.00090
         722152.16    4131936.40        0.00089                        722175.14
4131926.57        0.00087
         722198.12    4131916.73        0.00085                        722221.11
4131906.89        0.00084
         722244.09    4131897.05        0.00082                        722267.07
4131887.22        0.00081
         722290.06    4131877.38        0.00079                        722313.04
4131867.54        0.00078
         722336.02    4131857.70        0.00076                        722359.01
4131847.86        0.00075
         722381.99    4131838.03        0.00073                        722404.97
4131828.19        0.00072
         722427.95    4131818.35        0.00070                        722450.94
4131808.51        0.00069
         722473.92    4131798.68        0.00067                        722496.90
4131788.84        0.00065
         722519.89    4131779.00        0.00064                        722542.87
4131769.16        0.00063
         722565.85    4131759.32        0.00062                        722588.84
4131749.49        0.00061
         722611.82    4131739.65        0.00060                        722634.80
4131729.81        0.00059
         722657.78    4131719.97        0.00058                        722680.77
4131710.14        0.00057
         722703.75    4131700.30        0.00055                        722726.73
4131690.46        0.00054
         722749.72    4131680.62        0.00052                        722772.70
4131670.78        0.00051
         722795.68    4131660.95        0.00050                        722818.67
4131651.11        0.00049
         722841.65    4131641.27        0.00048                        722864.63
4131631.43        0.00047
         722887.61    4131621.60        0.00046                        722910.60
4131611.76        0.00045
         722933.58    4131601.92        0.00044                        722956.56
4131592.08        0.00044
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722979.55	4131582.24	0.00043	723002.53	4131572.41	0.00042
723025.51	4131562.57	0.00041	723048.50	4131552.73	0.00040
723071.48	4131542.89	0.00039	723094.46	4131533.06	0.00038
723117.44	4131523.22	0.00037	723140.43	4131513.38	0.00036
723163.41	4131503.54	0.00035	723186.39	4131493.71	0.00034
723209.38	4131483.87	0.00033	723232.36	4131474.03	0.00032
723255.34	4131464.19	0.00032	723278.33	4131454.35	0.00031
723260.99	4131463.95	0.00031	723238.01	4131473.79	0.00032
723215.03	4131483.62	0.00033	723192.04	4131493.46	0.00034
723169.06	4131503.30	0.00035	723146.08	4131513.14	0.00036
723123.10	4131522.98	0.00037	723100.11	4131532.81	0.00038
723077.13	4131542.65	0.00039	723054.15	4131552.49	0.00040
723031.16	4131562.33	0.00041	723008.18	4131572.16	0.00041
722985.20	4131582.00	0.00042	722962.21	4131591.84	0.00043
722939.23	4131601.68	0.00044	722916.25	4131611.51	0.00045
722893.27	4131621.35	0.00046	722870.28		

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4131631.19        0.00047
         722847.30    4131641.03        0.00048                    722824.32
4131650.87        0.00048
         722801.33    4131660.70        0.00050                    722778.35
4131670.54        0.00051
         722755.37    4131680.38        0.00052                    722732.38
4131690.22        0.00053
         722709.40    4131700.05        0.00055                    722686.42
4131709.89        0.00056
         722663.43    4131719.73        0.00057                    722640.45
4131729.57        0.00058
         722617.47    4131739.41        0.00059                    722594.49
4131749.24        0.00060
         722571.50    4131759.08        0.00061                    722548.52
4131768.92        0.00062
         722525.54    4131778.76        0.00064                    722502.55
4131788.59        0.00065
         722479.57    4131798.43        0.00066                    722456.59
4131808.27        0.00068
         722433.60    4131818.11        0.00069                    722410.62
4131827.95        0.00071
         722387.64    4131837.78        0.00073                    722364.66
4131847.62        0.00074
         722341.67    4131857.46        0.00076                    722318.69
4131867.30        0.00077
         722295.71    4131877.13        0.00079                    722272.72
4131886.97        0.00080
         722249.74    4131896.81        0.00082                    722226.76
4131906.65        0.00083
         722203.77    4131916.49        0.00085                    722180.79
4131926.32        0.00086
         722157.81    4131936.16        0.00088                    722134.83
4131946.00        0.00089
         722111.84    4131955.84        0.00091                    722088.86
4131965.67        0.00093
         722065.88    4131975.51        0.00094                    722042.89
4131985.35        0.00096
         722019.91    4131995.19        0.00097                    721996.93
4132005.02        0.00099
         721973.94    4132014.86        0.00101                    721950.96
4132024.70        0.00102
         721927.98    4132034.54        0.00104                    721905.00
4132044.38        0.00106
         721882.01    4132054.21        0.00108                    721859.03
4132064.05        0.00109
         722093.85    4131295.32        0.00275                    722116.79
4131285.39        0.00274
         722139.74    4131275.46        0.00274                    722162.68
4131265.53        0.00274
1 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722185.62	4131255.59	0.00274	722208.57	4131245.66	0.00274
722231.51	4131235.73	0.00274	722254.45	4131225.80	0.00275
722277.39	4131215.87	0.00277	722300.34	4131205.94	0.00280
722323.28	4131196.00	0.00286	722346.22	4131186.07	0.00296
722369.16	4131176.14	0.00312	722392.11	4131166.21	0.00337
722415.05	4131156.28	0.00380	722437.99	4131146.35	0.00454
722460.93	4131136.42	0.00558	722483.88	4131126.48	0.00680
722506.82	4131116.55	0.00793	722529.76	4131106.62	0.00875
722552.71	4131096.69	0.00904	722575.65	4131086.76	0.00877
722598.59	4131076.83	0.00806	722621.53	4131066.89	0.00713
722644.48	4131056.96	0.00615	722667.42	4131047.03	0.00523
722690.36	4131037.10	0.00444	722713.30	4131027.17	0.00377
722736.25	4131017.24	0.00321	722759.19		

4131007.31 0.00276
722771.12 4131056.62 0.00252 722748.18
4131066.55 0.00298
722725.24 4131076.49 0.00358 722702.30
4131086.42 0.00438
722679.35 4131096.35 0.00545 722656.41
4131106.28 0.00691
722633.47 4131116.21 0.00890 722610.53
4131126.14 0.01157
722587.58 4131136.07 0.01494 722564.64
4131146.01 0.01858
722541.70 4131155.94 0.02123 722518.76
4131165.87 0.02162
722495.81 4131175.80 0.01977 722472.87
4131185.73 0.01648
722449.93 4131195.66 0.01221 722426.99
4131205.60 0.00822
722404.04 4131215.53 0.00592 722381.10
4131225.46 0.00501
722358.16 4131235.39 0.00458 722335.21
4131245.32 0.00437
722312.27 4131255.25 0.00426 722289.33
4131265.18 0.00417
722266.39 4131275.12 0.00412 722243.44
4131285.05 0.00410
722220.50 4131294.98 0.00406 722197.56
4131304.91 0.00404
722174.62 4131314.84 0.00403 722151.67
4131324.77 0.00402
722128.73 4131334.71 0.00403 722148.89
4131034.56 0.00118
722171.91 4131024.81 0.00118 722194.93
4131015.07 0.00117
722217.96 4131005.32 0.00117 722240.98
4130995.57 0.00117
722264.00 4130985.83 0.00118 722287.02
4130976.08 0.00118
722310.04 4130966.33 0.00119 722333.06
4130956.59 0.00120
722356.09 4130946.84 0.00120 722379.11
4130937.09 0.00121
722402.13 4130927.35 0.00123 722417.99
4130974.93 0.00147
722394.97 4130984.68 0.00143 722371.95
4130994.42 0.00141
722348.92 4131004.17 0.00139 722325.90
4131013.92 0.00138
722302.88 4131023.66 0.00136 722279.86
4131033.41 0.00135
722256.84 4131043.16 0.00134 722233.82

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721507.14	4131256.72	0.00114	721530.06	4131246.74	0.00116
721552.97	4131236.75	0.00117	721575.89	4131226.76	0.00118
721598.81	4131216.78	0.00119	721621.73	4131206.79	0.00119
721644.65	4131196.80	0.00120	721667.57	4131186.82	0.00120
721690.49	4131176.83	0.00119	721713.41	4131166.84	0.00119
721736.32	4131156.86	0.00119	721759.24	4131146.87	0.00118
721782.16	4131136.88	0.00117	721805.08	4131126.90	0.00116
721828.00	4131116.91	0.00115	721850.92	4131106.92	0.00115
721873.84	4131096.94	0.00114	721896.76	4131086.95	0.00113
721903.62	4131127.59	0.00123	721880.70		

4131137.58 0.00125
721857.78 4131147.57 0.00126 721834.87
4131157.55 0.00127
721811.95 4131167.54 0.00128 721789.03
4131177.53 0.00129
721766.11 4131187.51 0.00131 721743.19
4131197.50 0.00132
721720.27 4131207.48 0.00133 721697.35
4131217.47 0.00134
721674.43 4131227.46 0.00135 721651.52
4131237.44 0.00135
721628.60 4131247.43 0.00135 721605.68
4131257.42 0.00136
721582.76 4131267.40 0.00135 721559.84
4131277.39 0.00135
721536.92 4131287.38 0.00134 721514.00
4131297.36 0.00133
721491.08 4131307.35 0.00131 721412.42
4131178.31 0.00073
721435.37 4131168.40 0.00075 721458.32
4131158.48 0.00077
721481.27 4131148.57 0.00079 721504.22
4131138.66 0.00080
721527.17 4131128.74 0.00082 721550.13
4131118.83 0.00083
721573.08 4131108.92 0.00084 721596.03
4131099.00 0.00086
721618.98 4131089.09 0.00087 721641.93
4131079.18 0.00087
721664.88 4131069.26 0.00088 721687.83
4131059.35 0.00089
721710.78 4131049.44 0.00089 721733.73
4131039.52 0.00090
721756.68 4131029.61 0.00090 721779.63
4131019.70 0.00090
721802.58 4131009.78 0.00090 721825.53
4130999.87 0.00090
721848.48 4130989.95 0.00090 721871.43
4130980.04 0.00090
721894.38 4130970.13 0.00089 721917.33
4130960.21 0.00089
721940.28 4130950.30 0.00089 721963.23
4130940.39 0.00088
721986.18 4130930.47 0.00088 722009.13
4130920.56 0.00088
722032.08 4130910.65 0.00087 722055.03
4130900.73 0.00087
722077.99 4130890.82 0.00086 722100.94
4130880.91 0.00086
722123.89 4130870.99 0.00085 722146.84

4130861.08   0.00085
         722169.79   4130851.17   0.00085   722192.74
4130841.25   0.00085
         722215.69   4130831.34   0.00085   722238.64
4130821.43   0.00085
         722261.59   4130811.51   0.00084   722284.54
4130801.60   0.00084
         722307.49   4130791.68   0.00084   722330.44
4130781.77   0.00084
         722374.04   4130839.19   0.00096   722351.09
4130849.10   0.00096

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

4130987.89 0.00100
722006.83 4130997.81 0.00101 721983.88
4131007.72 0.00101
721960.93 4131017.63 0.00102 721937.98
4131027.55 0.00103
721915.03 4131037.46 0.00103 721892.08
4131047.37 0.00104
721869.13 4131057.29 0.00104 721846.18
4131067.20 0.00105
721823.23 4131077.11 0.00105 721800.28
4131087.03 0.00106
721777.33 4131096.94 0.00106 721754.38
4131106.85 0.00107
721731.43 4131116.77 0.00107 721708.48
4131126.68 0.00107
721685.52 4131136.60 0.00107 721662.57
4131146.51 0.00107
721639.62 4131156.42 0.00106 721616.67
4131166.34 0.00106
721593.72 4131176.25 0.00105 721570.77
4131186.16 0.00104
721547.82 4131196.08 0.00103 721524.87
4131205.99 0.00101
721501.92 4131215.90 0.00100 721478.97
4131225.82 0.00098
721456.02 4131235.73 0.00095 721024.56
4133243.02 0.00356
720598.35 4133478.99 0.00653 721792.22
4132066.34 0.00117
721583.83 4131986.08 0.00200 721606.81
4131976.23 0.00193
721629.78 4131966.37 0.00187 721652.76
4131956.52 0.00181
721675.73 4131946.66 0.00177 721698.71
4131936.81 0.00172
721721.69 4131926.95 0.00168 721744.66
4131917.10 0.00165
721767.64 4131907.24 0.00162 721790.61
4131897.38 0.00159
721813.59 4131887.53 0.00156 721836.56
4131877.67 0.00154
721859.54 4131867.82 0.00152 721882.51
4131857.96 0.00150
721905.49 4131848.11 0.00148 721928.46
4131838.25 0.00147
721951.44 4131828.40 0.00145 721974.42
4131818.54 0.00144
721997.39 4131808.69 0.00142 722020.37
4131798.83 0.00141
722043.34 4131788.98 0.00140 722066.32

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4131779.12        0.00139
         722089.29    4131769.27        0.00138                       722112.27
4131759.41        0.00137
         722135.24    4131749.56        0.00136                       722158.22
4131739.70        0.00135
         722181.20    4131729.85        0.00134                       722204.17
4131719.99        0.00133
         722227.15    4131710.13        0.00132                       722250.12
4131700.28        0.00131
         722273.10    4131690.42        0.00130                       722296.07
4131680.57        0.00129
         722319.05    4131670.71        0.00127                       722342.02
4131660.86        0.00126
         722365.00    4131651.00        0.00124                       722387.97
4131641.15        0.00122
         722410.95    4131631.29        0.00119                       722433.93
4131621.44        0.00117
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722456.90    4131611.58        0.00114                       722479.88
4131601.73        0.00111
         722502.85    4131591.87        0.00108                       722525.83
4131582.02        0.00106
         722548.80    4131572.16        0.00104                       722571.78
4131562.31        0.00103
         722594.75    4131552.45        0.00100                       722617.73
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4131542.59 0.00098
722640.71 4131532.74 0.00095 722663.68
4131522.88 0.00092
722686.66 4131513.03 0.00089 722709.63
4131503.17 0.00086
722732.61 4131493.32 0.00084 722755.58
4131483.46 0.00082
722778.56 4131473.61 0.00080 722801.53
4131463.75 0.00078
722824.51 4131453.90 0.00075 722847.48
4131444.04 0.00073
722870.46 4131434.19 0.00070 722893.44
4131424.33 0.00067
722916.41 4131414.48 0.00064 722939.39
4131404.62 0.00061
722962.36 4131394.77 0.00058 722985.34
4131384.91 0.00056
723008.31 4131375.06 0.00053 723031.29
4131365.20 0.00051
723054.26 4131355.34 0.00049 723077.24
4131345.49 0.00047
723100.22 4131335.63 0.00045 723123.19
4131325.78 0.00043
723146.17 4131315.92 0.00041 723169.14
4131306.07 0.00040
723192.12 4131296.21 0.00038 723267.01
4131369.79 0.00033
723245.67 4131382.05 0.00034 723222.69
4131391.91 0.00035
723199.72 4131401.76 0.00036 723176.74
4131411.62 0.00037
723153.76 4131421.48 0.00038 723130.79
4131431.33 0.00039
723107.81 4131441.19 0.00041 723084.84
4131451.04 0.00042
723061.86 4131460.90 0.00043 723038.89
4131470.75 0.00045
723015.91 4131480.61 0.00046 722992.94
4131490.46 0.00048
722969.96 4131500.32 0.00049 722946.99
4131510.17 0.00051
722924.01 4131520.03 0.00052 722901.03
4131529.88 0.00053
722878.06 4131539.74 0.00055 722855.08
4131549.59 0.00056
722832.11 4131559.45 0.00057 722809.13
4131569.30 0.00058
722786.16 4131579.16 0.00059 722763.18
4131589.02 0.00061
722740.21 4131598.87 0.00062 722717.23

4131608.73   0.00064
         722694.26   4131618.58   0.00066   722671.28
4131628.44   0.00068
         722648.30   4131638.29   0.00069   722625.33
4131648.15   0.00071
         722602.35   4131658.00   0.00072   722579.38
4131667.86   0.00073
         722556.40   4131677.71   0.00075   722533.43
4131687.57   0.00076
         722510.45   4131697.42   0.00077   722487.48
4131707.28   0.00079
         722464.50   4131717.13   0.00081   722441.52
4131726.99   0.00083
         722418.55   4131736.84   0.00085   722395.57
4131746.70   0.00086
         722372.60   4131756.55   0.00088   722349.62
4131766.41   0.00090
         722326.65   4131776.27   0.00091   722303.67
4131786.12   0.00093
         722280.70   4131795.98   0.00094   722257.72
4131805.83   0.00096
         722234.75   4131815.69   0.00097   722211.77
4131825.54   0.00099

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722188.79   4131835.40   0.00100   722165.82

4131845.25 0.00101
722142.84 4131855.11 0.00103 722119.87
4131864.96 0.00104
722096.89 4131874.82 0.00106 722073.92
4131884.67 0.00107
722050.94 4131894.53 0.00108 722027.97
4131904.38 0.00110
722004.99 4131914.24 0.00111 721982.01
4131924.09 0.00113
721959.04 4131933.95 0.00114 721936.06
4131943.81 0.00116
721913.09 4131953.66 0.00117 721890.11
4131963.52 0.00119
721867.14 4131973.37 0.00121 721844.16
4131983.23 0.00123
721821.19 4131993.08 0.00125 721798.21
4132002.94 0.00127
721775.24 4132012.79 0.00130 721752.26
4132022.65 0.00132
721729.28 4132032.50 0.00135 721706.31
4132042.36 0.00138
721683.33 4132052.21 0.00142 721660.36
4132062.07 0.00145
721637.38 4132071.92 0.00150 721841.17
4132144.72 0.00106
721864.15 4132134.89 0.00104 721887.14
4132125.06 0.00102
721910.12 4132115.23 0.00100 721933.11
4132105.40 0.00098
721956.09 4132095.56 0.00096 721979.08
4132085.73 0.00094
722002.07 4132075.90 0.00093 722025.05
4132066.07 0.00091
722048.04 4132056.24 0.00089 722071.02
4132046.41 0.00087
722094.01 4132036.57 0.00086 722116.99
4132026.74 0.00084
722139.98 4132016.91 0.00082 722162.97
4132007.08 0.00080
722185.95 4131997.25 0.00079 722208.94
4131987.42 0.00077
722231.92 4131977.58 0.00075 722254.91
4131967.75 0.00074
722277.89 4131957.92 0.00072 722300.88
4131948.09 0.00071
722323.86 4131938.26 0.00069 722346.85
4131928.43 0.00068
722369.84 4131918.60 0.00066 722392.82
4131908.76 0.00064
722415.81 4131898.93 0.00063 722438.79

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4131889.10        0.00062
         722461.78    4131879.27        0.00060                        722484.76
4131869.44        0.00059
         722507.75    4131859.61        0.00057                        722530.74
4131849.77        0.00056
         722553.72    4131839.94        0.00055                        722576.71
4131830.11        0.00054
         722599.69    4131820.28        0.00053                        722622.68
4131810.45        0.00052
         722645.66    4131800.62        0.00051                        722668.65
4131790.78        0.00051
         722691.63    4131780.95        0.00050                        722714.62
4131771.12        0.00049
         722737.61    4131761.29        0.00048                        722760.59
4131751.46        0.00046
         722783.58    4131741.63        0.00045                        722806.56
4131731.79        0.00044
         722829.55    4131721.96        0.00043                        722852.53
4131712.13        0.00042
         722875.52    4131702.30        0.00042                        722898.51
4131692.47        0.00041
         722921.49    4131682.64        0.00040                        722944.48
4131672.80        0.00039
         722967.46    4131662.97        0.00039                        722990.45
4131653.14        0.00038
         723013.43    4131643.31        0.00037                        723036.42
4131633.48        0.00037
         723059.41    4131623.65        0.00036                        723082.39
4131613.82        0.00035
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 130
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
723105.38	4131603.98	0.00035	723128.36	4131594.15	0.00034
723151.35	4131584.32	0.00033	723174.33	4131574.49	0.00032
723197.32	4131564.66	0.00032	723220.30	4131554.83	0.00031
723243.29	4131544.99	0.00030	723266.28	4131535.16	0.00030
723289.26	4131525.33	0.00029	723316.75	4131622.34	0.00026
723293.77	4131632.17	0.00027	723270.78	4131642.00	0.00027
723247.80	4131651.83	0.00028	723224.81	4131661.66	0.00028
723201.82	4131671.49	0.00029	723178.84	4131681.33	0.00029
723155.85	4131691.16	0.00030	723132.87	4131700.99	0.00030
723109.88	4131710.82	0.00031	723086.90	4131720.65	0.00031
723063.91	4131730.48	0.00032	723040.93	4131740.31	0.00032
723017.94	4131750.15	0.00033	722994.95	4131759.98	0.00033
722971.97	4131769.81	0.00034	722948.98	4131779.64	0.00034
722926.00	4131789.47	0.00035	722903.01	4131799.30	0.00036
722880.03	4131809.14	0.00036	722857.04	4131818.97	0.00037
722834.05	4131828.80	0.00038	722811.07	4131838.63	0.00039
722788.08	4131848.46	0.00039	722765.10	4131858.29	0.00040
722742.11	4131868.13	0.00041	722719.13	4131877.96	0.00042
722696.14	4131887.79	0.00043	722673.16	4131897.62	0.00043
722650.17	4131907.45	0.00044	722627.18	4131917.28	0.00045
722604.20	4131927.12	0.00046	722581.21	4131936.95	0.00047
722558.23	4131946.78	0.00048	722535.24	4131956.61	0.00049
722512.26	4131966.44	0.00050	722489.27		

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4131976.27        0.00051
         722466.28    4131986.11        0.00052                        722443.30
4131995.94        0.00053
         722420.31    4132005.77        0.00055                        722397.33
4132015.60        0.00056
         722374.34    4132025.43        0.00058                        722351.36
4132035.26        0.00059
         722328.37    4132045.09        0.00061                        722305.38
4132054.93        0.00063
         722282.40    4132064.76        0.00064                        722259.41
4132074.59        0.00066
         722236.43    4132084.42        0.00068                        722213.44
4132094.25        0.00070
         722190.46    4132104.08        0.00072                        722167.47
4132113.92        0.00074
         722144.49    4132123.75        0.00076                        722121.50
4132133.58        0.00078
         722098.51    4132143.41        0.00080                        722075.53
4132153.24        0.00082
         722052.54    4132163.07        0.00085                        722029.56
4132172.91        0.00087
         722006.57    4132182.74        0.00089                        721983.59
4132192.57        0.00091
         721960.60    4132202.40        0.00094                        721937.61
4132212.23        0.00096
         721914.63    4132222.06        0.00098                        721891.64
4132231.90        0.00100
         721853.38    4132064.29        0.00110                        721876.36
4132054.46        0.00108
         721899.34    4132044.62        0.00106                        721922.33
4132034.78        0.00105
         721945.31    4132024.94        0.00103                        721968.29
4132015.11        0.00101
         721991.28    4132005.27        0.00100                        722014.26
4131995.43        0.00098
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 131
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722037.24	4131985.59	0.00096	722060.23	4131975.75	0.00095
722083.21	4131965.92	0.00093	722106.19	4131956.08	0.00092
722129.17	4131946.24	0.00090	722152.16	4131936.40	0.00089
722175.14	4131926.57	0.00087	722198.12	4131916.73	0.00085
722221.11	4131906.89	0.00084	722244.09	4131897.05	0.00082
722267.07	4131887.22	0.00081	722290.06	4131877.38	0.00079
722313.04	4131867.54	0.00078	722336.02	4131857.70	0.00076
722359.01	4131847.86	0.00075	722381.99	4131838.03	0.00073
722404.97	4131828.19	0.00072	722427.95	4131818.35	0.00070
722450.94	4131808.51	0.00069	722473.92	4131798.68	0.00067
722496.90	4131788.84	0.00065	722519.89	4131779.00	0.00064
722542.87	4131769.16	0.00063	722565.85	4131759.32	0.00062
722588.84	4131749.49	0.00061	722611.82	4131739.65	0.00060
722634.80	4131729.81	0.00059	722657.78	4131719.97	0.00058
722680.77	4131710.14	0.00057	722703.75	4131700.30	0.00055
722726.73	4131690.46	0.00054	722749.72	4131680.62	0.00052
722772.70	4131670.78	0.00051	722795.68	4131660.95	0.00050
722818.67	4131651.11	0.00049	722841.65	4131641.27	0.00048
722864.63	4131631.43	0.00047	722887.61	4131621.60	0.00046
722910.60	4131611.76	0.00045	722933.58		

4131601.92   0.00044
         722956.56   4131592.08   0.00044   722979.55
4131582.24   0.00043
         723002.53   4131572.41   0.00042   723025.51
4131562.57   0.00041
         723048.50   4131552.73   0.00040   723071.48
4131542.89   0.00039
         723094.46   4131533.06   0.00038   723117.44
4131523.22   0.00037
         723140.43   4131513.38   0.00036   723163.41
4131503.54   0.00035
         723186.39   4131493.71   0.00034   723209.38
4131483.87   0.00033
         723232.36   4131474.03   0.00032   723255.34
4131464.19   0.00032
         723278.33   4131454.35   0.00031   723260.99
4131463.95   0.00031
         723238.01   4131473.79   0.00032   723215.03
4131483.62   0.00033
         723192.04   4131493.46   0.00034   723169.06
4131503.30   0.00035
         723146.08   4131513.14   0.00036   723123.10
4131522.98   0.00037
         723100.11   4131532.81   0.00038   723077.13
4131542.65   0.00039
         723054.15   4131552.49   0.00040   723031.16
4131562.33   0.00041
         723008.18   4131572.16   0.00041   722985.20
4131582.00   0.00042
         722962.21   4131591.84   0.00043   722939.23
4131601.68   0.00044
         722916.25   4131611.51   0.00045   722893.27
4131621.35   0.00046
         722870.28   4131631.19   0.00047   722847.30
4131641.03   0.00048
         722824.32   4131650.87   0.00048   722801.33
4131660.70   0.00050
         722778.35   4131670.54   0.00051   722755.37
4131680.38   0.00052
         722732.38   4131690.22   0.00053   722709.40
4131700.05   0.00055

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1
, PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9
, PAREA10 , PAREA11 , PAREA13 ,
PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF DPM IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722686.42	4131709.89	0.00056	722663.43	4131719.73	0.00057
722640.45	4131729.57	0.00058	722617.47	4131739.41	0.00059
722594.49	4131749.24	0.00060	722571.50	4131759.08	0.00061
722548.52	4131768.92	0.00062	722525.54	4131778.76	0.00064
722502.55	4131788.59	0.00065	722479.57	4131798.43	0.00066
722456.59	4131808.27	0.00068	722433.60	4131818.11	0.00069
722410.62	4131827.95	0.00071	722387.64	4131837.78	0.00073
722364.66	4131847.62	0.00074	722341.67	4131857.46	0.00076
722318.69	4131867.30	0.00077	722295.71	4131877.13	0.00079
722272.72	4131886.97	0.00080	722249.74	4131896.81	0.00082
722226.76	4131906.65	0.00083	722203.77	4131916.49	0.00085
722180.79	4131926.32	0.00086	722157.81	4131936.16	0.00088
722134.83	4131946.00	0.00089	722111.84	4131955.84	0.00091
722088.86	4131965.67	0.00093	722065.88	4131975.51	0.00094
722042.89	4131985.35	0.00096	722019.91	4131995.19	0.00097
721996.93	4132005.02	0.00099	721973.94	4132014.86	0.00101
721950.96	4132024.70	0.00102	721927.98		

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4132034.54        0.00104
         721905.00    4132044.38        0.00106                        721882.01
4132054.21        0.00108
         721859.03    4132064.05        0.00109                        722093.85
4131295.32        0.00275
         722116.79    4131285.39        0.00274                        722139.74
4131275.46        0.00274
         722162.68    4131265.53        0.00274                        722185.62
4131255.59        0.00274
         722208.57    4131245.66        0.00274                        722231.51
4131235.73        0.00274
         722254.45    4131225.80        0.00275                        722277.39
4131215.87        0.00277
         722300.34    4131205.94        0.00280                        722323.28
4131196.00        0.00286
         722346.22    4131186.07        0.00296                        722369.16
4131176.14        0.00312
         722392.11    4131166.21        0.00337                        722415.05
4131156.28        0.00380
         722437.99    4131146.35        0.00454                        722460.93
4131136.42        0.00558
         722483.88    4131126.48        0.00680                        722506.82
4131116.55        0.00793
         722529.76    4131106.62        0.00875                        722552.71
4131096.69        0.00904
         722575.65    4131086.76        0.00877                        722598.59
4131076.83        0.00806
         722621.53    4131066.89        0.00713                        722644.48
4131056.96        0.00615
         722667.42    4131047.03        0.00523                        722690.36
4131037.10        0.00444
         722713.30    4131027.17        0.00377                        722736.25
4131017.24        0.00321
         722759.19    4131007.31        0.00276                        722771.12
4131056.62        0.00252
         722748.18    4131066.55        0.00298                        722725.24
4131076.49        0.00358
         722702.30    4131086.42        0.00438                        722679.35
4131096.35        0.00545
         722656.41    4131106.28        0.00691                        722633.47
4131116.21        0.00890
         722610.53    4131126.14        0.01157                        722587.58
4131136.07        0.01494
         722564.64    4131146.01        0.01858                        722541.70
4131155.94        0.02123
         722518.76    4131165.87        0.02162                        722495.81
4131175.80        0.01977
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722472.87	4131185.73	0.01648	722449.93	4131195.66	0.01221
722426.99	4131205.60	0.00822	722404.04	4131215.53	0.00592
722381.10	4131225.46	0.00501	722358.16	4131235.39	0.00458
722335.21	4131245.32	0.00437	722312.27	4131255.25	0.00426
722289.33	4131265.18	0.00417	722266.39	4131275.12	0.00412
722243.44	4131285.05	0.00410	722220.50	4131294.98	0.00406
722197.56	4131304.91	0.00404	722174.62	4131314.84	0.00403
722151.67	4131324.77	0.00402	722128.73	4131334.71	0.00403
722148.89	4131034.56	0.00118	722171.91	4131024.81	0.00118
722194.93	4131015.07	0.00117	722217.96	4131005.32	0.00117
722240.98	4130995.57	0.00117	722264.00	4130985.83	0.00118
722287.02	4130976.08	0.00118	722310.04	4130966.33	0.00119
722333.06	4130956.59	0.00120	722356.09	4130946.84	0.00120
722379.11	4130937.09	0.00121	722402.13		

4130927.35 0.00123
722417.99 4130974.93 0.00147 722394.97
4130984.68 0.00143
722371.95 4130994.42 0.00141 722348.92
4131004.17 0.00139
722325.90 4131013.92 0.00138 722302.88
4131023.66 0.00136
722279.86 4131033.41 0.00135 722256.84
4131043.16 0.00134
722233.82 4131052.90 0.00134 722210.79
4131062.65 0.00134
722187.77 4131072.39 0.00134 721461.30
4131276.70 0.00110
721484.22 4131266.71 0.00112 721507.14
4131256.72 0.00114
721530.06 4131246.74 0.00116 721552.97
4131236.75 0.00117
721575.89 4131226.76 0.00118 721598.81
4131216.78 0.00119
721621.73 4131206.79 0.00119 721644.65
4131196.80 0.00120
721667.57 4131186.82 0.00120 721690.49
4131176.83 0.00119
721713.41 4131166.84 0.00119 721736.32
4131156.86 0.00119
721759.24 4131146.87 0.00118 721782.16
4131136.88 0.00117
721805.08 4131126.90 0.00116 721828.00
4131116.91 0.00115
721850.92 4131106.92 0.00115 721873.84
4131096.94 0.00114
721896.76 4131086.95 0.00113 721903.62
4131127.59 0.00123
721880.70 4131137.58 0.00125 721857.78
4131147.57 0.00126
721834.87 4131157.55 0.00127 721811.95
4131167.54 0.00128
721789.03 4131177.53 0.00129 721766.11
4131187.51 0.00131
721743.19 4131197.50 0.00132 721720.27
4131207.48 0.00133
721697.35 4131217.47 0.00134 721674.43
4131227.46 0.00135
721651.52 4131237.44 0.00135 721628.60
4131247.43 0.00135
721605.68 4131257.42 0.00136 721582.76
4131267.40 0.00135
721559.84 4131277.39 0.00135 721536.92
4131287.38 0.00134
721514.00 4131297.36 0.00133 721491.08

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 ,
PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721458.32	4131158.48	0.00077	721481.27	4131148.57	0.00079
721504.22	4131138.66	0.00080	721527.17	4131128.74	0.00082
721550.13	4131118.83	0.00083	721573.08	4131108.92	0.00084
721596.03	4131099.00	0.00086	721618.98	4131089.09	0.00087
721641.93	4131079.18	0.00087	721664.88	4131069.26	0.00088
721687.83	4131059.35	0.00089	721710.78	4131049.44	0.00089
721733.73	4131039.52	0.00090	721756.68	4131029.61	0.00090
721779.63	4131019.70	0.00090	721802.58	4131009.78	0.00090
721825.53	4130999.87	0.00090	721848.48	4130989.95	0.00090
721871.43	4130980.04	0.00090	721894.38	4130970.13	0.00089
721917.33	4130960.21	0.00089	721940.28		

4130950.30 0.00089
721963.23 4130940.39 0.00088 721986.18
4130930.47 0.00088
722009.13 4130920.56 0.00088 722032.08
4130910.65 0.00087
722055.03 4130900.73 0.00087 722077.99
4130890.82 0.00086
722100.94 4130880.91 0.00086 722123.89
4130870.99 0.00085
722146.84 4130861.08 0.00085 722169.79
4130851.17 0.00085
722192.74 4130841.25 0.00085 722215.69
4130831.34 0.00085
722238.64 4130821.43 0.00085 722261.59
4130811.51 0.00084
722284.54 4130801.60 0.00084 722307.49
4130791.68 0.00084
722330.44 4130781.77 0.00084 722374.04
4130839.19 0.00096
722351.09 4130849.10 0.00096 722328.14
4130859.02 0.00096
722305.19 4130868.93 0.00096 722282.24
4130878.84 0.00096
722259.29 4130888.76 0.00096 722236.34
4130898.67 0.00096
722213.38 4130908.58 0.00096 722190.43
4130918.50 0.00096
722167.48 4130928.41 0.00097 722144.53
4130938.33 0.00097
722121.58 4130948.24 0.00098 722098.63
4130958.15 0.00098
722075.68 4130968.07 0.00099 722052.73
4130977.98 0.00100
722029.78 4130987.89 0.00100 722006.83
4130997.81 0.00101
721983.88 4131007.72 0.00101 721960.93
4131017.63 0.00102
721937.98 4131027.55 0.00103 721915.03
4131037.46 0.00103
721892.08 4131047.37 0.00104 721869.13
4131057.29 0.00104
721846.18 4131067.20 0.00105 721823.23
4131077.11 0.00105
721800.28 4131087.03 0.00106 721777.33
4131096.94 0.00106
721754.38 4131106.85 0.00107 721731.43
4131116.77 0.00107
721708.48 4131126.68 0.00107 721685.52
4131136.60 0.00107
721662.57 4131146.51 0.00107 721639.62

4131156.42 0.00106
721616.67 4131166.34 0.00106 721593.72
4131176.25 0.00105
721570.77 4131186.16 0.00104 721547.82
4131196.08 0.00103
721524.87 4131205.99 0.00101 721501.92
4131215.90 0.00100
721478.97 4131225.82 0.00098 721456.02
4131235.73 0.00095

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721024.56	4133243.02	0.00356	720598.35	4133478.99	0.00653
721792.22	4132066.34	0.00117	721583.83	4131986.08	0.00200
721606.81	4131976.23	0.00193	721629.78	4131966.37	0.00187
721652.76	4131956.52	0.00181	721675.73	4131946.66	0.00177
721698.71	4131936.81	0.00172	721721.69	4131926.95	0.00168
721744.66	4131917.10	0.00165	721767.64	4131907.24	0.00162
721790.61	4131897.38	0.00159	721813.59	4131887.53	0.00156
721836.56	4131877.67	0.00154	721859.54		

4131867.82 0.00152
721882.51 4131857.96 0.00150 721905.49
4131848.11 0.00148
721928.46 4131838.25 0.00147 721951.44
4131828.40 0.00145
721974.42 4131818.54 0.00144 721997.39
4131808.69 0.00142
722020.37 4131798.83 0.00141 722043.34
4131788.98 0.00140
722066.32 4131779.12 0.00139 722089.29
4131769.27 0.00138
722112.27 4131759.41 0.00137 722135.24
4131749.56 0.00136
722158.22 4131739.70 0.00135 722181.20
4131729.85 0.00134
722204.17 4131719.99 0.00133 722227.15
4131710.13 0.00132
722250.12 4131700.28 0.00131 722273.10
4131690.42 0.00130
722296.07 4131680.57 0.00129 722319.05
4131670.71 0.00127
722342.02 4131660.86 0.00126 722365.00
4131651.00 0.00124
722387.97 4131641.15 0.00122 722410.95
4131631.29 0.00119
722433.93 4131621.44 0.00117 722456.90
4131611.58 0.00114
722479.88 4131601.73 0.00111 722502.85
4131591.87 0.00108
722525.83 4131582.02 0.00106 722548.80
4131572.16 0.00104
722571.78 4131562.31 0.00103 722594.75
4131552.45 0.00100
722617.73 4131542.59 0.00098 722640.71
4131532.74 0.00095
722663.68 4131522.88 0.00092 722686.66
4131513.03 0.00089
722709.63 4131503.17 0.00086 722732.61
4131493.32 0.00084
722755.58 4131483.46 0.00082 722778.56
4131473.61 0.00080
722801.53 4131463.75 0.00078 722824.51
4131453.90 0.00075
722847.48 4131444.04 0.00073 722870.46
4131434.19 0.00070
722893.44 4131424.33 0.00067 722916.41
4131414.48 0.00064
722939.39 4131404.62 0.00061 722962.36
4131394.77 0.00058
722985.34 4131384.91 0.00056 723008.31

4131375.06   0.00053
         723031.29   4131365.20   0.00051   723054.26
4131355.34   0.00049
         723077.24   4131345.49   0.00047   723100.22
4131335.63   0.00045
         723123.19   4131325.78   0.00043   723146.17
4131315.92   0.00041
         723169.14   4131306.07   0.00040   723192.12
4131296.21   0.00038
         723267.01   4131369.79   0.00033   723245.67
4131382.05   0.00034
         723222.69   4131391.91   0.00035   723199.72
4131401.76   0.00036
         723176.74   4131411.62   0.00037   723153.76
4131421.48   0.00038

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                PAREA12   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

4131520.03 0.00052
722901.03 4131529.88 0.00053 722878.06
4131539.74 0.00055
722855.08 4131549.59 0.00056 722832.11
4131559.45 0.00057
722809.13 4131569.30 0.00058 722786.16
4131579.16 0.00059
722763.18 4131589.02 0.00061 722740.21
4131598.87 0.00062
722717.23 4131608.73 0.00064 722694.26
4131618.58 0.00066
722671.28 4131628.44 0.00068 722648.30
4131638.29 0.00069
722625.33 4131648.15 0.00071 722602.35
4131658.00 0.00072
722579.38 4131667.86 0.00073 722556.40
4131677.71 0.00075
722533.43 4131687.57 0.00076 722510.45
4131697.42 0.00077
722487.48 4131707.28 0.00079 722464.50
4131717.13 0.00081
722441.52 4131726.99 0.00083 722418.55
4131736.84 0.00085
722395.57 4131746.70 0.00086 722372.60
4131756.55 0.00088
722349.62 4131766.41 0.00090 722326.65
4131776.27 0.00091
722303.67 4131786.12 0.00093 722280.70
4131795.98 0.00094
722257.72 4131805.83 0.00096 722234.75
4131815.69 0.00097
722211.77 4131825.54 0.00099 722188.79
4131835.40 0.00100
722165.82 4131845.25 0.00101 722142.84
4131855.11 0.00103
722119.87 4131864.96 0.00104 722096.89
4131874.82 0.00106
722073.92 4131884.67 0.00107 722050.94
4131894.53 0.00108
722027.97 4131904.38 0.00110 722004.99
4131914.24 0.00111
721982.01 4131924.09 0.00113 721959.04
4131933.95 0.00114
721936.06 4131943.81 0.00116 721913.09
4131953.66 0.00117
721890.11 4131963.52 0.00119 721867.14
4131973.37 0.00121
721844.16 4131983.23 0.00123 721821.19
4131993.08 0.00125
721798.21 4132002.94 0.00127 721775.24

4132012.79   0.00130
         721752.26   4132022.65   0.00132   721729.28
4132032.50   0.00135
         721706.31   4132042.36   0.00138   721683.33
4132052.21   0.00142
         721660.36   4132062.07   0.00145   721637.38
4132071.92   0.00150
         721841.17   4132144.72   0.00106   721864.15
4132134.89   0.00104
         721887.14   4132125.06   0.00102   721910.12
4132115.23   0.00100
         721933.11   4132105.40   0.00098   721956.09
4132095.56   0.00096
         721979.08   4132085.73   0.00094   722002.07
4132075.90   0.00093
         722025.05   4132066.07   0.00091   722048.04
4132056.24   0.00089
         722071.02   4132046.41   0.00087   722094.01
4132036.57   0.00086
         722116.99   4132026.74   0.00084   722139.98
4132016.91   0.00082

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

4131977.58 0.00075
722254.91 4131967.75 0.00074 722277.89
4131957.92 0.00072
722300.88 4131948.09 0.00071 722323.86
4131938.26 0.00069
722346.85 4131928.43 0.00068 722369.84
4131918.60 0.00066
722392.82 4131908.76 0.00064 722415.81
4131898.93 0.00063
722438.79 4131889.10 0.00062 722461.78
4131879.27 0.00060
722484.76 4131869.44 0.00059 722507.75
4131859.61 0.00057
722530.74 4131849.77 0.00056 722553.72
4131839.94 0.00055
722576.71 4131830.11 0.00054 722599.69
4131820.28 0.00053
722622.68 4131810.45 0.00052 722645.66
4131800.62 0.00051
722668.65 4131790.78 0.00051 722691.63
4131780.95 0.00050
722714.62 4131771.12 0.00049 722737.61
4131761.29 0.00048
722760.59 4131751.46 0.00046 722783.58
4131741.63 0.00045
722806.56 4131731.79 0.00044 722829.55
4131721.96 0.00043
722852.53 4131712.13 0.00042 722875.52
4131702.30 0.00042
722898.51 4131692.47 0.00041 722921.49
4131682.64 0.00040
722944.48 4131672.80 0.00039 722967.46
4131662.97 0.00039
722990.45 4131653.14 0.00038 723013.43
4131643.31 0.00037
723036.42 4131633.48 0.00037 723059.41
4131623.65 0.00036
723082.39 4131613.82 0.00035 723105.38
4131603.98 0.00035
723128.36 4131594.15 0.00034 723151.35
4131584.32 0.00033
723174.33 4131574.49 0.00032 723197.32
4131564.66 0.00032
723220.30 4131554.83 0.00031 723243.29
4131544.99 0.00030
723266.28 4131535.16 0.00030 723289.26
4131525.33 0.00029
723316.75 4131622.34 0.00026 723293.77
4131632.17 0.00027
723270.78 4131642.00 0.00027 723247.80

4131651.83   0.00028
         723224.81   4131661.66   0.00028   723201.82
4131671.49   0.00029
         723178.84   4131681.33   0.00029   723155.85
4131691.16   0.00030
         723132.87   4131700.99   0.00030   723109.88
4131710.82   0.00031
         723086.90   4131720.65   0.00031   723063.91
4131730.48   0.00032
         723040.93   4131740.31   0.00032   723017.94
4131750.15   0.00033
         722994.95   4131759.98   0.00033   722971.97
4131769.81   0.00034
         722948.98   4131779.64   0.00034   722926.00
4131789.47   0.00035
         722903.01   4131799.30   0.00036   722880.03
4131809.14   0.00036
         722857.04   4131818.97   0.00037   722834.05
4131828.80   0.00038
         722811.07   4131838.63   0.00039   722788.08
4131848.46   0.00039
         722765.10   4131858.29   0.00040   722742.11
4131868.13   0.00041
         722719.13   4131877.96   0.00042   722696.14
4131887.79   0.00043
         722673.16   4131897.62   0.00043   722650.17
4131907.45   0.00044

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                    INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)

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Y-COORD (M)        CONC
 - - -
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4131926.57   0.00087
         722198.12   4131916.73   0.00085   722221.11
4131906.89   0.00084
         722244.09   4131897.05   0.00082   722267.07
4131887.22   0.00081
         722290.06   4131877.38   0.00079   722313.04
4131867.54   0.00078
         722336.02   4131857.70   0.00076   722359.01
4131847.86   0.00075
         722381.99   4131838.03   0.00073   722404.97
4131828.19   0.00072
         722427.95   4131818.35   0.00070   722450.94
4131808.51   0.00069
         722473.92   4131798.68   0.00067   722496.90
4131788.84   0.00065
         722519.89   4131779.00   0.00064   722542.87
4131769.16   0.00063
         722565.85   4131759.32   0.00062   722588.84
4131749.49   0.00061
         722611.82   4131739.65   0.00060   722634.80
4131729.81   0.00059
         722657.78   4131719.97   0.00058   722680.77
4131710.14   0.00057
         722703.75   4131700.30   0.00055   722726.73
4131690.46   0.00054
         722749.72   4131680.62   0.00052   722772.70
4131670.78   0.00051
         722795.68   4131660.95   0.00050   722818.67
4131651.11   0.00049
         722841.65   4131641.27   0.00048   722864.63
4131631.43   0.00047
         722887.61   4131621.60   0.00046   722910.60
4131611.76   0.00045

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                PAREA12   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722933.58	4131601.92	0.00044	722956.56	4131592.08	0.00044
722979.55	4131582.24	0.00043	723002.53	4131572.41	0.00042
723025.51	4131562.57	0.00041	723048.50	4131552.73	0.00040
723071.48	4131542.89	0.00039	723094.46	4131533.06	0.00038
723117.44	4131523.22	0.00037	723140.43	4131513.38	0.00036
723163.41	4131503.54	0.00035	723186.39	4131493.71	0.00034
723209.38	4131483.87	0.00033	723232.36	4131474.03	0.00032
723255.34	4131464.19	0.00032	723278.33	4131454.35	0.00031
723260.99	4131463.95	0.00031	723238.01	4131473.79	0.00032
723215.03	4131483.62	0.00033	723192.04	4131493.46	0.00034
723169.06	4131503.30	0.00035	723146.08	4131513.14	0.00036
723123.10	4131522.98	0.00037	723100.11	4131532.81	0.00038
723077.13	4131542.65	0.00039	723054.15	4131552.49	0.00040
723031.16	4131562.33	0.00041	723008.18	4131572.16	0.00041
722985.20	4131582.00	0.00042	722962.21	4131591.84	0.00043
722939.23	4131601.68	0.00044	722916.25	4131611.51	0.00045
722893.27	4131621.35	0.00046	722870.28	4131631.19	0.00047
722847.30	4131641.03	0.00048	722824.32	4131650.87	0.00048
722801.33	4131660.70	0.00050	722778.35	4131670.54	0.00051
722755.37	4131680.38	0.00052	722732.38	4131690.22	0.00053
722709.40	4131700.05	0.00055	722686.42		

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4131709.89        0.00056
         722663.43    4131719.73        0.00057                        722640.45
4131729.57        0.00058
         722617.47    4131739.41        0.00059                        722594.49
4131749.24        0.00060
         722571.50    4131759.08        0.00061                        722548.52
4131768.92        0.00062
         722525.54    4131778.76        0.00064                        722502.55
4131788.59        0.00065
         722479.57    4131798.43        0.00066                        722456.59
4131808.27        0.00068
         722433.60    4131818.11        0.00069                        722410.62
4131827.95        0.00071
         722387.64    4131837.78        0.00073                        722364.66
4131847.62        0.00074
         722341.67    4131857.46        0.00076                        722318.69
4131867.30        0.00077
         722295.71    4131877.13        0.00079                        722272.72
4131886.97        0.00080
         722249.74    4131896.81        0.00082                        722226.76
4131906.65        0.00083
         722203.77    4131916.49        0.00085                        722180.79
4131926.32        0.00086
         722157.81    4131936.16        0.00088                        722134.83
4131946.00        0.00089
         722111.84    4131955.84        0.00091                        722088.86
4131965.67        0.00093
         722065.88    4131975.51        0.00094                        722042.89
4131985.35        0.00096
         722019.91    4131995.19        0.00097                        721996.93
4132005.02        0.00099
         721973.94    4132014.86        0.00101                        721950.96
4132024.70        0.00102
         721927.98    4132034.54        0.00104                        721905.00
4132044.38        0.00106
         721882.01    4132054.21        0.00108                        721859.03
4132064.05        0.00109
         722093.85    4131295.32        0.00275                        722116.79
4131285.39        0.00274
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN     ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
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 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722139.74    4131275.46        0.00274                       722162.68
4131265.53        0.00274
         722185.62    4131255.59        0.00274                       722208.57
4131245.66        0.00274
         722231.51    4131235.73        0.00274                       722254.45
4131225.80        0.00275
         722277.39    4131215.87        0.00277                       722300.34
4131205.94        0.00280
         722323.28    4131196.00        0.00286                       722346.22
4131186.07        0.00296
         722369.16    4131176.14        0.00312                       722392.11
4131166.21        0.00337
         722415.05    4131156.28        0.00380                       722437.99
4131146.35        0.00454
         722460.93    4131136.42        0.00558                       722483.88
4131126.48        0.00680
         722506.82    4131116.55        0.00793                       722529.76
4131106.62        0.00875
         722552.71    4131096.69        0.00904                       722575.65
4131086.76        0.00877
         722598.59    4131076.83        0.00806                       722621.53
4131066.89        0.00713
         722644.48    4131056.96        0.00615                       722667.42
4131047.03        0.00523
         722690.36    4131037.10        0.00444                       722713.30
4131027.17        0.00377
         722736.25    4131017.24        0.00321                       722759.19
4131007.31        0.00276
         722771.12    4131056.62        0.00252                       722748.18
4131066.55        0.00298
         722725.24    4131076.49        0.00358                       722702.30
4131086.42        0.00438
         722679.35    4131096.35        0.00545                       722656.41
4131106.28        0.00691
         722633.47    4131116.21        0.00890                       722610.53
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4131126.14        0.01157
         722587.58    4131136.07        0.01494                        722564.64
4131146.01        0.01858
         722541.70    4131155.94        0.02123                        722518.76
4131165.87        0.02162
         722495.81    4131175.80        0.01977                        722472.87
4131185.73        0.01648
         722449.93    4131195.66        0.01221                        722426.99
4131205.60        0.00822
         722404.04    4131215.53        0.00592                        722381.10
4131225.46        0.00501
         722358.16    4131235.39        0.00458                        722335.21
4131245.32        0.00437
         722312.27    4131255.25        0.00426                        722289.33
4131265.18        0.00417
         722266.39    4131275.12        0.00412                        722243.44
4131285.05        0.00410
         722220.50    4131294.98        0.00406                        722197.56
4131304.91        0.00404
         722174.62    4131314.84        0.00403                        722151.67
4131324.77        0.00402
         722128.73    4131334.71        0.00403                        722148.89
4131034.56        0.00118
         722171.91    4131024.81        0.00118                        722194.93
4131015.07        0.00117
         722217.96    4131005.32        0.00117                        722240.98
4130995.57        0.00117
         722264.00    4130985.83        0.00118                        722287.02
4130976.08        0.00118
         722310.04    4130966.33        0.00119                        722333.06
4130956.59        0.00120
         722356.09    4130946.84        0.00120                        722379.11
4130937.09        0.00121
         722402.13    4130927.35        0.00123                        722417.99
4130974.93        0.00147
         722394.97    4130984.68        0.00143                        722371.95
4130994.42        0.00141
         722348.92    4131004.17        0.00139                        722325.90
4131013.92        0.00138
         722302.88    4131023.66        0.00136                        722279.86
4131033.41        0.00135
         722256.84    4131043.16        0.00134                        722233.82
4131052.90        0.00134
         722210.79    4131062.65        0.00134                        722187.77
4131072.39        0.00134
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                              ***       10:17:53
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: MAIN ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721461.30	4131276.70	0.00110	721484.22	4131266.71	0.00112
721507.14	4131256.72	0.00114	721530.06	4131246.74	0.00116
721552.97	4131236.75	0.00117	721575.89	4131226.76	0.00118
721598.81	4131216.78	0.00119	721621.73	4131206.79	0.00119
721644.65	4131196.80	0.00120	721667.57	4131186.82	0.00120
721690.49	4131176.83	0.00119	721713.41	4131166.84	0.00119
721736.32	4131156.86	0.00119	721759.24	4131146.87	0.00118
721782.16	4131136.88	0.00117	721805.08	4131126.90	0.00116
721828.00	4131116.91	0.00115	721850.92	4131106.92	0.00115
721873.84	4131096.94	0.00114	721896.76	4131086.95	0.00113
721903.62	4131127.59	0.00123	721880.70	4131137.58	0.00125
721857.78	4131147.57	0.00126	721834.87	4131157.55	0.00127
721811.95	4131167.54	0.00128	721789.03	4131177.53	0.00129
721766.11	4131187.51	0.00131	721743.19	4131197.50	0.00132
721720.27	4131207.48	0.00133	721697.35		

4131217.47 0.00134
721674.43 4131227.46 0.00135 721651.52
4131237.44 0.00135
721628.60 4131247.43 0.00135 721605.68
4131257.42 0.00136
721582.76 4131267.40 0.00135 721559.84
4131277.39 0.00135
721536.92 4131287.38 0.00134 721514.00
4131297.36 0.00133
721491.08 4131307.35 0.00131 721412.42
4131178.31 0.00073
721435.37 4131168.40 0.00075 721458.32
4131158.48 0.00077
721481.27 4131148.57 0.00079 721504.22
4131138.66 0.00080
721527.17 4131128.74 0.00082 721550.13
4131118.83 0.00083
721573.08 4131108.92 0.00084 721596.03
4131099.00 0.00086
721618.98 4131089.09 0.00087 721641.93
4131079.18 0.00087
721664.88 4131069.26 0.00088 721687.83
4131059.35 0.00089
721710.78 4131049.44 0.00089 721733.73
4131039.52 0.00090
721756.68 4131029.61 0.00090 721779.63
4131019.70 0.00090
721802.58 4131009.78 0.00090 721825.53
4130999.87 0.00090
721848.48 4130989.95 0.00090 721871.43
4130980.04 0.00090
721894.38 4130970.13 0.00089 721917.33
4130960.21 0.00089
721940.28 4130950.30 0.00089 721963.23
4130940.39 0.00088
721986.18 4130930.47 0.00088 722009.13
4130920.56 0.00088
722032.08 4130910.65 0.00087 722055.03
4130900.73 0.00087
722077.99 4130890.82 0.00086 722100.94
4130880.91 0.00086
722123.89 4130870.99 0.00085 722146.84
4130861.08 0.00085
722169.79 4130851.17 0.00085 722192.74
4130841.25 0.00085
722215.69 4130831.34 0.00085 722238.64
4130821.43 0.00085
722261.59 4130811.51 0.00084 722284.54
4130801.60 0.00084
722307.49 4130791.68 0.00084 722330.44

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: MAIN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF DPM   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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4131067.20        0.00105
         721823.23    4131077.11        0.00105                       721800.28
4131087.03        0.00106
         721777.33    4131096.94        0.00106                       721754.38
4131106.85        0.00107
         721731.43    4131116.77        0.00107                       721708.48
4131126.68        0.00107
         721685.52    4131136.60        0.00107                       721662.57
4131146.51        0.00107
         721639.62    4131156.42        0.00106                       721616.67
4131166.34        0.00106
         721593.72    4131176.25        0.00105                       721570.77
4131186.16        0.00104
         721547.82    4131196.08        0.00103                       721524.87
4131205.99        0.00101
         721501.92    4131215.90        0.00100                       721478.97
4131225.82        0.00098
         721456.02    4131235.73        0.00095                       721024.56
4133243.02        0.00356
         720598.35    4133478.99        0.00653

 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***        10:17:53

                                      PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                   INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721117.14    721142.14    721167.14    721192.14    721217.14
721242.14    721267.14    721292.14    721317.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |       0.00025      0.00024      0.00022      0.00021      0.00020
  0.00020      0.00019      0.00018      0.00017
  4132615.52 |       0.00026      0.00024      0.00023      0.00022      0.00021
```

```
 0.00020      0.00019      0.00018      0.00018
 4132590.52 |       0.00027      0.00025      0.00024      0.00023      0.00021
 0.00020      0.00019      0.00019      0.00018
 4132565.52 |       0.00027      0.00026      0.00024      0.00023      0.00022
 0.00021      0.00020      0.00019      0.00018
 4132540.52 |       0.00028      0.00026      0.00025      0.00023      0.00022
 0.00021      0.00020      0.00019      0.00018
 4132515.52 |       0.00029      0.00027      0.00025      0.00024      0.00023
 0.00021      0.00020      0.00019      0.00019
 4132490.52 |       0.00030      0.00028      0.00026      0.00024      0.00023
 0.00022      0.00021      0.00020      0.00019
 4132465.52 |       0.00030      0.00028      0.00026      0.00025      0.00023
 0.00022      0.00021      0.00020      0.00019
 4132440.52 |       0.00031      0.00028      0.00026      0.00025      0.00023
 0.00022      0.00021      0.00020      0.00019
 4132415.52 |       0.00031      0.00029      0.00027      0.00025      0.00024
 0.00022      0.00021      0.00020      0.00019
 4132390.52 |       0.00031      0.00029      0.00027      0.00025      0.00024
 0.00022      0.00021      0.00020      0.00019
 4132365.52 |       0.00032      0.00029      0.00027      0.00025      0.00024
 0.00022      0.00021      0.00020      0.00019
 4132340.52 |       0.00032      0.00030      0.00028      0.00026      0.00024
 0.00023      0.00021      0.00020      0.00019
 4132315.52 |       0.00033      0.00030      0.00028      0.00026      0.00024
 0.00023      0.00021      0.00020      0.00019
 4132290.52 |       0.00034      0.00031      0.00029      0.00027      0.00025
 0.00023      0.00022      0.00021      0.00019
 4132265.52 |       0.00035      0.00032      0.00030      0.00027      0.00025
 0.00024      0.00022      0.00021      0.00020
 4132240.52 |       0.00037      0.00033      0.00031      0.00028      0.00026
 0.00024      0.00023      0.00021      0.00020
 4132215.52 |       0.00038      0.00035      0.00032      0.00029      0.00027
 0.00025      0.00023      0.00022      0.00021
 4132190.52 |       0.00040      0.00036      0.00033      0.00030      0.00028
 0.00026      0.00024      0.00023      0.00021
 4132165.52 |       0.00042      0.00038      0.00034      0.00032      0.00029
 0.00027      0.00025      0.00023      0.00022
 4132140.52 |       0.00044      0.00039      0.00036      0.00033      0.00030
 0.00028      0.00026      0.00024      0.00023
 4132115.52 |       0.00045      0.00041      0.00037      0.00034      0.00031
 0.00029      0.00027      0.00025      0.00023
 4132090.52 |       0.00047      0.00042      0.00039      0.00035      0.00032
 0.00030      0.00028      0.00026      0.00024
 4132065.52 |       0.00049      0.00044      0.00040      0.00036      0.00033
 0.00031      0.00029      0.00027      0.00025
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***

INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	721342.14	721367.14	721392.14	721417.14	721442.14	721467.14	721492.14	721517.14	721542.14	
4132640.52	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	0.00013	
4132615.52	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	0.00013	
4132590.52	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	0.00013	
4132565.52	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00014	0.00013	
4132540.52	0.00018	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132515.52	0.00018	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132490.52	0.00018	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132465.52	0.00018	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132440.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132415.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132390.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132365.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132340.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132315.52	0.00018	0.00017	0.00017	0.00016	0.00015	0.00015	0.00014	0.00014	0.00013	
4132290.52	0.00018	0.00018	0.00017	0.00016	0.00015					

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  0.00015      0.00014      0.00014      0.00013
  4132265.52 |       0.00019      0.00018      0.00017      0.00016      0.00015
  0.00015      0.00014      0.00014      0.00013
  4132240.52 |       0.00019      0.00018      0.00017      0.00016      0.00016
  0.00015      0.00014      0.00014      0.00013
  4132215.52 |       0.00019      0.00018      0.00017      0.00017      0.00016
  0.00015      0.00014      0.00014      0.00013
  4132190.52 |       0.00020      0.00019      0.00018      0.00017      0.00016
  0.00015      0.00015      0.00014      0.00014
  4132165.52 |       0.00020      0.00019      0.00018      0.00017      0.00016
  0.00016      0.00015      0.00014      0.00014
  4132140.52 |       0.00021      0.00020      0.00019      0.00018      0.00017
  0.00016      0.00015      0.00015      0.00014
  4132115.52 |       0.00022      0.00020      0.00019      0.00018      0.00017
  0.00016      0.00016      0.00015      0.00014
  4132090.52 |       0.00022      0.00021      0.00020      0.00019      0.00018
  0.00017      0.00016      0.00015      0.00015
  4132065.52 |       0.00023      0.00022      0.00020      0.00019      0.00018
  0.00017      0.00016      0.00016      0.00015
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     721567.14    721592.14    721617.14    721642.14    721667.14
721692.14    721717.14    721742.14    721767.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
  0.00011      0.00011      0.00011      0.00010
  4132615.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
  0.00011      0.00011      0.00011      0.00010
  4132590.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
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```
 0.00011      0.00011      0.00011      0.00010
 4132565.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132540.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132515.52 |       0.00013      0.00012      0.00012      0.00012      0.00012
 0.00011      0.00011      0.00011      0.00010
 4132490.52 |       0.00013      0.00012      0.00012      0.00012      0.00012
 0.00011      0.00011      0.00011      0.00010
 4132465.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132440.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132415.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132390.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00011      0.00010
 4132365.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132340.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132315.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132290.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132265.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132240.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132215.52 |       0.00013      0.00012      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132190.52 |       0.00013      0.00013      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132165.52 |       0.00013      0.00013      0.00012      0.00012      0.00011
 0.00011      0.00011      0.00010      0.00010
 4132140.52 |       0.00013      0.00013      0.00012      0.00012      0.00012
 0.00011      0.00011      0.00011      0.00010
 4132115.52 |       0.00014      0.00013      0.00013      0.00012      0.00012
 0.00011      0.00011      0.00011      0.00010
 4132090.52 |       0.00014      0.00013      0.00013      0.00012      0.00012
 0.00012      0.00011      0.00011      0.00010
 4132065.52 |       0.00014      0.00014      0.00013      0.00013      0.00012
 0.00012      0.00011      0.00011      0.00011
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                   PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***

INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	721792.14	721817.14	721842.14
4132640.52	0.00010	0.00010	0.00010
4132615.52	0.00010	0.00010	0.00010
4132590.52	0.00010	0.00010	0.00010
4132565.52	0.00010	0.00010	0.00010
4132540.52	0.00010	0.00010	0.00010
4132515.52	0.00010	0.00010	0.00010
4132490.52	0.00010	0.00010	0.00010
4132465.52	0.00010	0.00010	0.00010
4132440.52	0.00010	0.00010	0.00010
4132415.52	0.00010	0.00010	0.00010
4132390.52	0.00010	0.00010	0.00010
4132365.52	0.00010	0.00010	0.00010
4132340.52	0.00010	0.00010	0.00010
4132315.52	0.00010	0.00010	0.00009
4132290.52	0.00010	0.00010	0.00009
4132265.52	0.00010	0.00010	0.00009
4132240.52	0.00010	0.00010	0.00009
4132215.52	0.00010	0.00010	0.00009
4132190.52	0.00010	0.00010	0.00009
4132165.52	0.00010	0.00010	0.00009
4132140.52	0.00010	0.00010	0.00009
4132115.52	0.00010	0.00010	0.00010
4132090.52	0.00010	0.00010	0.00010
4132065.52	0.00010	0.00010	0.00010

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***

INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	721122.34	721147.34	721172.34	721197.34	721222.34	721247.34	721272.34	721297.34	721322.34	
4133148.24	0.00013	0.00012	0.00012	0.00012	0.00012	0.00011	0.00011	0.00011	0.00011	
4133123.24	0.00013	0.00013	0.00012	0.00012	0.00012	0.00012	0.00011	0.00011	0.00011	
4133098.24	0.00013	0.00013	0.00013	0.00012	0.00012	0.00012	0.00012	0.00012	0.00011	
4133073.24	0.00014	0.00013	0.00013	0.00013	0.00013	0.00012	0.00012	0.00012	0.00012	
4133048.24	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	0.00012	0.00012	0.00012	
4133023.24	0.00015	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00012	0.00012	
4132998.24	0.00015	0.00015	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	0.00013	
4132973.24	0.00015	0.00015	0.00015	0.00014	0.00014	0.00014	0.00013	0.00013	0.00013	
4132948.24	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00014	0.00013	0.00013	
4132923.24	0.00016	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00014	0.00013	
4132898.24	0.00017	0.00016	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	0.00014	
4132873.24	0.00018	0.00017	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	0.00014	
4132848.24	0.00018	0.00018	0.00017	0.00017	0.00016	0.00016	0.00015	0.00015	0.00014	
4132823.24	0.00019	0.00018	0.00018	0.00017	0.00017	0.00016	0.00016	0.00015	0.00015	
4132798.24	0.00019	0.00019	0.00018	0.00018	0.00017	0.00017	0.00016	0.00016	0.00015	
4132773.24	0.00020	0.00020	0.00019	0.00018	0.00018	0.00017	0.00017	0.00016	0.00016	

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  4132748.24 |       0.00021      0.00020      0.00020      0.00019      0.00018
  0.00018      0.00017      0.00016      0.00016
  4132723.24 |       0.00022      0.00021      0.00020      0.00019      0.00019
  0.00018      0.00017      0.00017      0.00016
  4132698.24 |       0.00023      0.00022      0.00021      0.00020      0.00019
  0.00018      0.00018      0.00017      0.00017
  4132673.24 |       0.00024      0.00022      0.00021      0.00021      0.00020
  0.00019      0.00018      0.00017      0.00017
  4132648.24 |       0.00024      0.00023      0.00022      0.00021      0.00020
  0.00019      0.00018      0.00018      0.00017
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 148
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     721347.34    721372.34    721397.34    721422.34    721447.34
721472.34    721497.34    721522.34    721547.34
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133148.24 |       0.00011      0.00010      0.00010      0.00010      0.00010
  0.00010      0.00010      0.00009      0.00009
  4133123.24 |       0.00011      0.00011      0.00011      0.00010      0.00010
  0.00010      0.00010      0.00010      0.00010
  4133098.24 |       0.00011      0.00011      0.00011      0.00011      0.00010
  0.00010      0.00010      0.00010      0.00010
  4133073.24 |       0.00011      0.00011      0.00011      0.00011      0.00011
  0.00010      0.00010      0.00010      0.00010
  4133048.24 |       0.00012      0.00011      0.00011      0.00011      0.00011
  0.00011      0.00010      0.00010      0.00010
  4133023.24 |       0.00012      0.00012      0.00012      0.00011      0.00011
  0.00011      0.00011      0.00010      0.00010
  4132998.24 |       0.00012      0.00012      0.00012      0.00012      0.00011
  0.00011      0.00011      0.00011      0.00010
```

```
 4132973.24 |       0.00013      0.00012      0.00012      0.00012      0.00012
 0.00011      0.00011      0.00011      0.00011
 4132948.24 |       0.00013      0.00013      0.00012      0.00012      0.00012
 0.00012      0.00011      0.00011      0.00011
 4132923.24 |       0.00013      0.00013      0.00013      0.00012      0.00012
 0.00012      0.00012      0.00011      0.00011
 4132898.24 |       0.00013      0.00013      0.00013      0.00013      0.00012
 0.00012      0.00012      0.00012      0.00011
 4132873.24 |       0.00014      0.00013      0.00013      0.00013      0.00013
 0.00012      0.00012      0.00012      0.00011
 4132848.24 |       0.00014      0.00014      0.00013      0.00013      0.00013
 0.00012      0.00012      0.00012      0.00012
 4132823.24 |       0.00014      0.00014      0.00014      0.00013      0.00013
 0.00013      0.00012      0.00012      0.00012
 4132798.24 |       0.00015      0.00014      0.00014      0.00014      0.00013
 0.00013      0.00013      0.00012      0.00012
 4132773.24 |       0.00015      0.00015      0.00014      0.00014      0.00013
 0.00013      0.00013      0.00012      0.00012
 4132748.24 |       0.00015      0.00015      0.00014      0.00014      0.00014
 0.00013      0.00013      0.00013      0.00012
 4132723.24 |       0.00016      0.00015      0.00015      0.00014      0.00014
 0.00013      0.00013      0.00013      0.00012
 4132698.24 |       0.00016      0.00015      0.00015      0.00014      0.00014
 0.00014      0.00013      0.00013      0.00013
 4132673.24 |       0.00016      0.00016      0.00015      0.00015      0.00014
 0.00014      0.00013      0.00013      0.00013
 4132648.24 |       0.00016      0.00016      0.00015      0.00015      0.00014
 0.00014      0.00014      0.00013      0.00013
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                    PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART2   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     721572.34    721597.34    721622.34
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4133416.48 | 0.00039 0.00041 0.00042 0.00044 0.00045
0.00047 0.00048 0.00049 0.00050
4133391.48 | 0.00040 0.00042 0.00044 0.00045 0.00047
0.00049 0.00050 0.00052 0.00053
4133366.48 | 0.00041 0.00043 0.00045 0.00047 0.00049
0.00051 0.00052 0.00054 0.00056
4133341.48 | 0.00042 0.00044 0.00046 0.00048 0.00051
0.00053 0.00055 0.00057 0.00059
4133316.48 | 0.00043 0.00045 0.00047 0.00050 0.00052
0.00055 0.00057 0.00059 0.00062
4133291.48 | 0.00043 0.00046 0.00048 0.00051 0.00054
0.00056 0.00059 0.00062 0.00065
4133266.48 | 0.00043 0.00046 0.00049 0.00052 0.00055
0.00058 0.00061 0.00065 0.00068
4133241.48 | 0.00043 0.00046 0.00049 0.00053 0.00056
0.00060 0.00063 0.00067 0.00071
4133216.48 | 0.00043 0.00046 0.00049 0.00053 0.00057
0.00061 0.00065 0.00069 0.00074
4133191.48 | 0.00042 0.00046 0.00049 0.00053 0.00057
0.00062 0.00066 0.00071 0.00076
4133166.48 | 0.00041 0.00045 0.00048 0.00053 0.00057
0.00062 0.00067 0.00072 0.00078
4133141.48 | 0.00040 0.00043 0.00047 0.00052 0.00056
0.00061 0.00067 0.00073 0.00080
4133116.48 | 0.00038 0.00042 0.00046 0.00050 0.00055
0.00060 0.00066 0.00073 0.00080
4133091.48 | 0.00036 0.00040 0.00044 0.00048 0.00053
0.00059 0.00065 0.00072 0.00080
4133066.48 | 0.00034 0.00038 0.00042 0.00046 0.00051
0.00056 0.00063 0.00070 0.00078
4133041.48 | 0.00032 0.00036 0.00039 0.00043 0.00048
0.00054 0.00060 0.00067 0.00076
4133016.48 | 0.00030 0.00033 0.00037 0.00041 0.00045
0.00050 0.00056 0.00064 0.00072
4132991.48 | 0.00028 0.00031 0.00034 0.00038 0.00042
0.00047 0.00053 0.00060 0.00068
4132966.48 | 0.00026 0.00028 0.00031 0.00035 0.00039
0.00043 0.00049 0.00055 0.00063
4132941.48 | 0.00024 0.00026 0.00029 0.00032 0.00035
0.00040 0.00045 0.00050 0.00057
4132916.48 | 0.00022 0.00024 0.00026 0.00029 0.00032
0.00036 0.00040 0.00046 0.00052
4132891.48 | 0.00020 0.00022 0.00024 0.00027 0.00029
0.00033 0.00037 0.00041 0.00047
4132866.48 | 0.00019 0.00020 0.00022 0.00024 0.00027
0.00030 0.00033 0.00037 0.00042
4132841.48 | 0.00017 0.00018 0.00020 0.00022 0.00024
0.00027 0.00030 0.00033 0.00037
4132816.48 | 0.00016 0.00017 0.00018 0.00020 0.00022
0.00024 0.00027 0.00030 0.00033

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)					
	719092.38	719117.38	719142.38	719167.38	719192.38	719217.38
719242.38	719267.38	719292.38				
4133416.48	0.00051	0.00052	0.00052	0.00052	0.00052	0.00052
0.00052	0.00052	0.00051	0.00051			
4133391.48	0.00054	0.00055	0.00056	0.00056	0.00056	0.00056
0.00056	0.00056	0.00056	0.00055			
4133366.48	0.00057	0.00058	0.00059	0.00060	0.00061	0.00061
0.00061	0.00061	0.00060	0.00060			
4133341.48	0.00060	0.00062	0.00064	0.00065	0.00066	0.00066
0.00066	0.00066	0.00066	0.00065			
4133316.48	0.00064	0.00066	0.00068	0.00069	0.00071	0.00072
0.00072	0.00072	0.00072	0.00071			
4133291.48	0.00068	0.00070	0.00072	0.00075	0.00076	0.00078
0.00078	0.00078	0.00079	0.00079			
4133266.48	0.00071	0.00074	0.00077	0.00080	0.00082	0.00084
0.00086	0.00087	0.00087				

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 4133241.48 |       0.00075      0.00079      0.00082      0.00086      0.00089
 0.00092      0.00094      0.00095      0.00096
 4133216.48 |       0.00078      0.00083      0.00088      0.00092      0.00096
 0.00100      0.00103      0.00105      0.00107
 4133191.48 |       0.00082      0.00087      0.00093      0.00098      0.00103
 0.00108      0.00113      0.00116      0.00119
 4133166.48 |       0.00085      0.00091      0.00098      0.00104      0.00111
 0.00117      0.00123      0.00128      0.00132
 4133141.48 |       0.00087      0.00094      0.00102      0.00110      0.00118
 0.00126      0.00134      0.00141      0.00148
 4133116.48 |       0.00088      0.00097      0.00106      0.00115      0.00125
 0.00135      0.00146      0.00155      0.00164
 4133091.48 |       0.00088      0.00098      0.00108      0.00119      0.00131
 0.00144      0.00157      0.00170      0.00182
 4133066.48 |       0.00087      0.00098      0.00109      0.00122      0.00136
 0.00151      0.00167      0.00184      0.00201
 4133041.48 |       0.00085      0.00096      0.00109      0.00123      0.00139
 0.00157      0.00176      0.00197      0.00219
 4133016.48 |       0.00082      0.00093      0.00106      0.00122      0.00139
 0.00159      0.00182      0.00208      0.00236
 4132991.48 |       0.00077      0.00089      0.00102      0.00118      0.00137
 0.00159      0.00185      0.00214      0.00248
 4132966.48 |       0.00072      0.00083      0.00096      0.00112      0.00131
 0.00154      0.00182      0.00216      0.00255
 4132941.48 |       0.00066      0.00076      0.00089      0.00104      0.00123
 0.00146      0.00175      0.00211      0.00255
 4132916.48 |       0.00060      0.00069      0.00081      0.00095      0.00113
 0.00135      0.00164      0.00200      0.00245
 4132891.48 |       0.00054      0.00062      0.00073      0.00085      0.00102
 0.00122      0.00149      0.00183      0.00229
 4132866.48 |       0.00048      0.00055      0.00064      0.00076      0.00090
 0.00108      0.00132      0.00164      0.00206
 4132841.48 |       0.00042      0.00049      0.00056      0.00066      0.00079
 0.00094      0.00115      0.00142      0.00179
 4132816.48 |       0.00037      0.00043      0.00049      0.00057      0.00068
 0.00081      0.00098      0.00121      0.00153
 4132791.48 |       0.00033      0.00038      0.00043      0.00050      0.00058
 0.00069      0.00083      0.00102      0.00127
 4132766.48 |       0.00029      0.00033      0.00037      0.00043      0.00050
 0.00059      0.00070      0.00085      0.00105
 4132741.48 |       0.00026      0.00029      0.00033      0.00038      0.00043
 0.00050      0.00060      0.00072      0.00087
 4132716.48 |       0.00024      0.00026      0.00029      0.00033      0.00038
 0.00044      0.00051      0.00061      0.00073
 4132691.48 |       0.00022      0.00024      0.00027      0.00030      0.00034
 0.00039      0.00045      0.00053      0.00063
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART3 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS) 719317.38	719342.38	719367.38	719392.38	719417.38	719442.38	719467.38
4133416.48	0.00050	0.00049	0.00048	0.00047	0.00045	0.00044	0.00043
4133391.48	0.00054	0.00053	0.00052	0.00051	0.00049	0.00048	0.00046
4133366.48	0.00059	0.00058	0.00057	0.00055	0.00054	0.00052	0.00050
4133341.48	0.00064	0.00063	0.00062	0.00060	0.00059	0.00057	0.00055
4133316.48	0.00071	0.00069	0.00068	0.00066	0.00065	0.00062	0.00060
4133291.48	0.00078	0.00077	0.00075	0.00073	0.00071	0.00069	0.00066
4133266.48	0.00086	0.00085	0.00084	0.00082	0.00079	0.00077	0.00074
4133241.48	0.00096	0.00095	0.00094	0.00092	0.00089	0.00086	0.00083
4133216.48	0.00107	0.00107	0.00105	0.00103	0.00100	0.00097	0.00093
4133191.48	0.00120	0.00120	0.00119	0.00117	0.00114	0.00110	0.00106
4133166.48	0.00135	0.00136	0.00136	0.00134	0.00131	0.00127	0.00122
4133141.48	0.00152	0.00155	0.00156	0.00155	0.00152	0.00147	0.00141
4133116.48	0.00172	0.00177	0.00180	0.00180	0.00178	0.00173	0.00166
4133091.48	0.00193	0.00202	0.00208	0.00211	0.00210	0.00206	0.00198

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 4133066.48 |       0.00216      0.00230      0.00241      0.00248      0.00250
 0.00247      0.00240
 4133041.48 |       0.00241      0.00262      0.00280      0.00294      0.00301
 0.00301      0.00294
 4133016.48 |       0.00265      0.00295      0.00323      0.00347      0.00364
 0.00372      0.00368
 4132991.48 |       0.00286      0.00327      0.00369      0.00409      0.00442
 0.00463      0.00469
 4132966.48 |       0.00302      0.00355      0.00414      0.00475      0.00533
 0.00580      0.00605
 4132941.48 |       0.00308      0.00373      0.00449      0.00537      0.00630
 0.00719      0.00789
 4132916.48 |       0.00304      0.00378      0.00471      0.00587      0.00725
 0.00879      0.01027
 4132891.48 |       0.00288      0.00366      0.00470      0.00610      0.00795
 0.01030      0.01304
 4132866.48 |       0.00262      0.00340      0.00446      0.00597      0.00814
 0.01125      0.01563
 4132841.48 |       0.00230      0.00301      0.00402      0.00550      0.00773
 0.01119      0.01675
 4132816.48 |       0.00195      0.00257      0.00346      0.00479      0.00689
 0.01024      0.01592
 4132791.48 |       0.00162      0.00212      0.00285      0.00397      0.00577
 0.00877      0.01398
 4132766.48 |       0.00132      0.00171      0.00229      0.00317      0.00462
 0.00708      0.01153
 4132741.48 |       0.00108      0.00138      0.00182      0.00247      0.00354
 0.00539      0.00885
 4132716.48 |       0.00090      0.00113      0.00145      0.00192      0.00268
 0.00397      0.00638
 4132691.48 |       0.00076      0.00094      0.00118      0.00153      0.00207
 0.00295      0.00454
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 153
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                     INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                     *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3
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**

Y-COORD (METERS)	X-COORD (METERS)									
	720314.85	720339.85	720364.85	720389.85	720414.85	720439.85	720464.85	720489.85	720514.85	
4131895.44	0.00081	0.00078	0.00074	0.00071	0.00067	0.00065	0.00062	0.00060	0.00058	
4131869.50	0.00079	0.00076	0.00073	0.00070	0.00067	0.00064	0.00061	0.00059	0.00058	
4131843.56	0.00077	0.00075	0.00072	0.00069	0.00066	0.00063	0.00061	0.00059	0.00057	
4131817.62	0.00075	0.00073	0.00070	0.00068	0.00065	0.00062	0.00060	0.00058	0.00057	
4131791.68	0.00073	0.00071	0.00069	0.00066	0.00064	0.00062	0.00059	0.00058	0.00056	
4131765.74	0.00070	0.00069	0.00067	0.00065	0.00063	0.00061	0.00059	0.00057	0.00055	
4131739.80	0.00068	0.00066	0.00065	0.00063	0.00061	0.00059	0.00058	0.00056	0.00054	
4131713.86	0.00065	0.00064	0.00063	0.00061	0.00060	0.00058	0.00057	0.00055	0.00054	
4131687.92	0.00063	0.00062	0.00061	0.00060	0.00058	0.00057	0.00055	0.00054	0.00053	
4131661.98	0.00060	0.00060	0.00059	0.00058	0.00057	0.00056	0.00054	0.00053	0.00052	
4131636.04	0.00058	0.00057	0.00057	0.00056	0.00055	0.00054	0.00053	0.00052	0.00051	
4131610.10	0.00055	0.00055	0.00055	0.00054	0.00053	0.00053	0.00052	0.00051	0.00050	
4131584.16	0.00053	0.00053	0.00053	0.00052	0.00052	0.00051	0.00050	0.00050	0.00049	
4131558.22	0.00051	0.00051	0.00051	0.00050	0.00050	0.00050	0.00049	0.00048	0.00048	
4131532.28	0.00048	0.00049	0.00049	0.00049	0.00048	0.00048	0.00048	0.00047	0.00046	
4131506.34	0.00046	0.00047	0.00047	0.00047	0.00047	0.00046	0.00046	0.00046	0.00045	
4131480.40	0.00044	0.00045	0.00045	0.00045	0.00045	0.00045	0.00045	0.00044	0.00044	
4131454.46	0.00042	0.00043	0.00043	0.00043	0.00043	0.00043	0.00043	0.00043	0.00043	
4131428.52	0.00040	0.00041	0.00041	0.00041	0.00042	0.00042	0.00042	0.00042	0.00042	
4131402.58	0.00038	0.00039	0.00039	0.00040	0.00040	0.00040	0.00040	0.00040	0.00040	
4131376.64	0.00036	0.00037	0.00038	0.00038	0.00039	0.00039	0.00039	0.00039	0.00039	

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	720539.85	720564.85	720589.85	720614.85	720639.85	720664.85	720689.85	720714.85	720739.85	
4131895.44	0.00057	0.00057	0.00057	0.00058	0.00060	0.00062	0.00065	0.00069	0.00072	
4131869.50	0.00057	0.00056	0.00056	0.00056	0.00058	0.00059	0.00061	0.00063	0.00066	
4131843.56	0.00056	0.00055	0.00055	0.00055	0.00055	0.00057	0.00058	0.00060	0.00062	
4131817.62	0.00055	0.00054	0.00054	0.00054	0.00054	0.00054	0.00056	0.00057	0.00059	
4131791.68	0.00055	0.00053	0.00053	0.00052	0.00052	0.00053	0.00053	0.00054	0.00056	
4131765.74	0.00054	0.00053	0.00052	0.00051	0.00051	0.00051	0.00052	0.00052	0.00053	
4131739.80	0.00053	0.00052	0.00051	0.00050	0.00050	0.00050	0.00050	0.00050	0.00051	
4131713.86	0.00052	0.00051	0.00050	0.00049	0.00049	0.00049	0.00049	0.00049	0.00049	
4131687.92	0.00051	0.00050	0.00049	0.00049	0.00048	0.00048	0.00047	0.00047	0.00048	
4131661.98	0.00051	0.00050	0.00049	0.00048	0.00047	0.00047	0.00046	0.00046	0.00046	
4131636.04	0.00050	0.00049	0.00048	0.00047	0.00046	0.00046	0.00045	0.00045	0.00045	
4131610.10	0.00049	0.00048	0.00047	0.00046	0.00046	0.00045	0.00045	0.00044	0.00044	

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  4131584.16 |       0.00048      0.00047      0.00046      0.00045      0.00045
  0.00044      0.00044      0.00043      0.00043
  4131558.22 |       0.00047      0.00046      0.00045      0.00045      0.00044
  0.00043      0.00043      0.00042      0.00042
  4131532.28 |       0.00046      0.00045      0.00044      0.00044      0.00043
  0.00043      0.00042      0.00042      0.00041
  4131506.34 |       0.00045      0.00044      0.00043      0.00043      0.00042
  0.00042      0.00041      0.00041      0.00040
  4131480.40 |       0.00044      0.00043      0.00042      0.00042      0.00041
  0.00041      0.00040      0.00040      0.00040
  4131454.46 |       0.00042      0.00042      0.00042      0.00041      0.00041
  0.00040      0.00040      0.00039      0.00039
  4131428.52 |       0.00041      0.00041      0.00041      0.00040      0.00040
  0.00039      0.00039      0.00038      0.00038
  4131402.58 |       0.00040      0.00040      0.00040      0.00039      0.00039
  0.00038      0.00038      0.00038      0.00037
  4131376.64 |       0.00039      0.00039      0.00038      0.00038      0.00038
  0.00038      0.00037      0.00037      0.00037
1 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 155
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     720761.78    720786.78    720811.78    720836.78    720861.78
720886.78    720911.78    720936.78    720961.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131567.21 |       0.00042      0.00042      0.00042      0.00042      0.00042
  0.00042      0.00042      0.00042      0.00043
  4131542.21 |       0.00041      0.00041      0.00041      0.00041      0.00041
  0.00041      0.00041      0.00041      0.00041
  4131517.21 |       0.00041      0.00040      0.00040      0.00040      0.00040
  0.00040      0.00040      0.00040      0.00040
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 4131492.21 |       0.00040      0.00039      0.00039      0.00039      0.00039
 0.00039      0.00039      0.00039      0.00039
 4131467.21 |       0.00039      0.00039      0.00038      0.00038      0.00038
 0.00038      0.00038      0.00038      0.00038
 4131442.21 |       0.00038      0.00038      0.00038      0.00037      0.00037
 0.00037      0.00037      0.00037      0.00037
 4131417.21 |       0.00037      0.00037      0.00037      0.00037      0.00036
 0.00036      0.00036      0.00036      0.00036
 4131392.21 |       0.00037      0.00036      0.00036      0.00036      0.00036
 0.00036      0.00035      0.00035      0.00035
 4131367.21 |       0.00036      0.00036      0.00036      0.00035      0.00035
 0.00035      0.00035      0.00034      0.00034
 4131342.21 |       0.00035      0.00035      0.00035      0.00035      0.00034
 0.00034      0.00034      0.00034      0.00034
 4131317.21 |       0.00035      0.00034      0.00034      0.00034      0.00034
 0.00033      0.00033      0.00033      0.00033
 4131292.21 |       0.00034      0.00034      0.00034      0.00033      0.00033
 0.00033      0.00033      0.00032      0.00032
 4131267.21 |       0.00033      0.00033      0.00033      0.00033      0.00032
 0.00032      0.00032      0.00032      0.00032
 4131242.21 |       0.00033      0.00032      0.00032      0.00032      0.00032
 0.00032      0.00031      0.00031      0.00031
 4131217.21 |       0.00032      0.00032      0.00032      0.00031      0.00031
 0.00031      0.00031      0.00031      0.00030
 4131192.21 |       0.00031      0.00031      0.00031      0.00031      0.00031
 0.00030      0.00030      0.00030      0.00030
 4131167.21 |       0.00031      0.00030      0.00030      0.00030      0.00030
 0.00030      0.00030      0.00030      0.00029
 4131142.21 |       0.00030      0.00030      0.00030      0.00030      0.00029
 0.00029      0.00029      0.00029      0.00029
 4131117.21 |       0.00029      0.00029      0.00029      0.00029      0.00029
 0.00029      0.00029      0.00028      0.00028
 4131092.21 |       0.00029      0.00028      0.00028      0.00028      0.00028
 0.00028      0.00028      0.00028      0.00028
 4131067.21 |       0.00028      0.00028      0.00028      0.00028      0.00028
 0.00028      0.00028      0.00027      0.00027
 4131042.21 |       0.00027      0.00027      0.00027      0.00027      0.00027
 0.00027      0.00027      0.00027      0.00027
 4131017.21 |       0.00026      0.00027      0.00027      0.00027      0.00027
 0.00027      0.00026      0.00026      0.00026
 4130992.21 |       0.00026      0.00026      0.00026      0.00026      0.00026
 0.00026      0.00026      0.00026      0.00026
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                   PAGE 156
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
```

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)		
	720986.78	721011.78	721036.78
4131567.21	0.00043	0.00043	0.00042
4131542.21	0.00041	0.00041	0.00041
4131517.21	0.00040	0.00040	0.00040
4131492.21	0.00039	0.00039	0.00039
4131467.21	0.00038	0.00038	0.00037
4131442.21	0.00037	0.00037	0.00036
4131417.21	0.00036	0.00036	0.00036
4131392.21	0.00035	0.00035	0.00035
4131367.21	0.00034	0.00034	0.00034
4131342.21	0.00033	0.00033	0.00033
4131317.21	0.00033	0.00033	0.00032
4131292.21	0.00032	0.00032	0.00032
4131267.21	0.00031	0.00031	0.00031
4131242.21	0.00031	0.00031	0.00030
4131217.21	0.00030	0.00030	0.00030
4131192.21	0.00030	0.00030	0.00029
4131167.21	0.00029	0.00029	0.00029
4131142.21	0.00029	0.00028	0.00028
4131117.21	0.00028	0.00028	0.00028
4131092.21	0.00028	0.00028	0.00027
4131067.21	0.00027	0.00027	0.00027
4131042.21	0.00027	0.00027	0.00026
4131017.21	0.00026	0.00026	0.00026
4130992.21	0.00026	0.00026	0.00026

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15
, PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** NETWORK ID: UCART6 ; NETWORK TYPE:
GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)									
	721041.49	721066.49	721091.49	721116.49	721141.49	721166.49	721191.49	721216.49	721241.49	
4131364.06	0.00034	0.00034	0.00033	0.00033	0.00033	0.00033	0.00032	0.00032	0.00031	
4131344.06	0.00033	0.00033	0.00033	0.00033	0.00032	0.00032	0.00032	0.00031	0.00031	
4131324.06	0.00033	0.00032	0.00032	0.00032	0.00032	0.00031	0.00031	0.00031	0.00030	
4131304.06	0.00032	0.00032	0.00032	0.00031	0.00031	0.00031	0.00031	0.00030	0.00030	
4131284.06	0.00031	0.00031	0.00031	0.00031	0.00031	0.00030	0.00030	0.00030	0.00030	
4131264.06	0.00031	0.00031	0.00031	0.00030	0.00030	0.00030	0.00030	0.00029	0.00029	
4131244.06	0.00030	0.00030	0.00030	0.00030	0.00030	0.00030	0.00029	0.00029	0.00029	
4131224.06	0.00030	0.00030	0.00030	0.00029	0.00029	0.00029	0.00029	0.00029	0.00028	
4131204.06	0.00030	0.00029	0.00029	0.00029	0.00029	0.00029	0.00028	0.00028	0.00028	
4131184.06	0.00029	0.00029	0.00029	0.00029	0.00028	0.00028	0.00028	0.00028	0.00028	
4131164.06	0.00029	0.00029	0.00028	0.00028	0.00028	0.00028	0.00028	0.00027	0.00027	
4131144.06	0.00028	0.00028	0.00028	0.00028	0.00028	0.00027	0.00027	0.00027	0.00027	
4131124.06	0.00028	0.00028	0.00028	0.00027	0.00027	0.00027	0.00027	0.00027	0.00026	
4131104.06	0.00028	0.00027	0.00027	0.00027	0.00027	0.00027	0.00027	0.00026	0.00026	
4131084.06	0.00027	0.00027	0.00027	0.00027	0.00027	0.00026	0.00026	0.00026	0.00026	
4131064.06	0.00027	0.00027	0.00026	0.00026	0.00026	0.00026	0.00026	0.00026	0.00025	

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** NETWORK ID: UCART6 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)						
	721266.49	721291.49	721316.49	721341.49	721366.49	721391.49	721416.49
4131364.06	0.00031	0.00030	0.00030	0.00029	0.00028	0.00027	0.00027
4131344.06	0.00030	0.00030	0.00029	0.00029	0.00028	0.00027	0.00027
4131324.06	0.00030	0.00030	0.00029	0.00028	0.00028	0.00027	0.00026
4131304.06	0.00030	0.00029	0.00029	0.00028	0.00028	0.00027	0.00026
4131284.06	0.00029	0.00029	0.00028	0.00028	0.00027	0.00027	0.00026
4131264.06	0.00029	0.00028	0.00028	0.00028	0.00027	0.00026	0.00026
4131244.06	0.00028	0.00028	0.00028	0.00027	0.00027	0.00026	0.00026
4131224.06	0.00028	0.00028	0.00027	0.00027	0.00026	0.00026	0.00026
4131204.06	0.00028	0.00027	0.00027	0.00027	0.00026	0.00026	0.00025
4131184.06	0.00027	0.00027	0.00027	0.00026	0.00026	0.00026	0.00025
4131164.06	0.00027	0.00027	0.00026	0.00026	0.00026	0.00025	0.00025
4131144.06	0.00027	0.00026	0.00026	0.00026	0.00025	0.00025	0.00025
4131124.06	0.00026	0.00026	0.00026	0.00025	0.00025		

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721792.22	4132066.34	0.00010	721583.83	4131986.08	0.00015
721606.81	4131976.23	0.00015	721629.78	4131966.37	0.00014
721652.76	4131956.52	0.00014	721675.73	4131946.66	0.00013
721698.71	4131936.81	0.00013	721721.69	4131926.95	0.00013
721744.66	4131917.10	0.00012	721767.64	4131907.24	0.00012
721790.61	4131897.38	0.00012	721813.59	4131887.53	0.00012
721836.56	4131877.67	0.00011	721859.54	4131867.82	0.00011
721882.51	4131857.96	0.00011	721905.49	4131848.11	0.00011
721928.46	4131838.25	0.00010	721951.44	4131828.40	0.00010
721974.42	4131818.54	0.00010	721997.39		

4131808.69 0.00010
722020.37 4131798.83 0.00010 722043.34
4131788.98 0.00009
722066.32 4131779.12 0.00009 722089.29
4131769.27 0.00009
722112.27 4131759.41 0.00009 722135.24
4131749.56 0.00009
722158.22 4131739.70 0.00009 722181.20
4131729.85 0.00009
722204.17 4131719.99 0.00008 722227.15
4131710.13 0.00008
722250.12 4131700.28 0.00008 722273.10
4131690.42 0.00008
722296.07 4131680.57 0.00008 722319.05
4131670.71 0.00008
722342.02 4131660.86 0.00008 722365.00
4131651.00 0.00008
722387.97 4131641.15 0.00007 722410.95
4131631.29 0.00007
722433.93 4131621.44 0.00007 722456.90
4131611.58 0.00007
722479.88 4131601.73 0.00007 722502.85
4131591.87 0.00007
722525.83 4131582.02 0.00007 722548.80
4131572.16 0.00007
722571.78 4131562.31 0.00007 722594.75
4131552.45 0.00007
722617.73 4131542.59 0.00007 722640.71
4131532.74 0.00007
722663.68 4131522.88 0.00006 722686.66
4131513.03 0.00006
722709.63 4131503.17 0.00006 722732.61
4131493.32 0.00006
722755.58 4131483.46 0.00006 722778.56
4131473.61 0.00006
722801.53 4131463.75 0.00006 722824.51
4131453.90 0.00006
722847.48 4131444.04 0.00006 722870.46
4131434.19 0.00006
722893.44 4131424.33 0.00006 722916.41
4131414.48 0.00006
722939.39 4131404.62 0.00006 722962.36
4131394.77 0.00006
722985.34 4131384.91 0.00006 723008.31
4131375.06 0.00006
723031.29 4131365.20 0.00006 723054.26
4131355.34 0.00005
723077.24 4131345.49 0.00005 723100.22
4131335.63 0.00005
723123.19 4131325.78 0.00005 723146.17

4131315.92   0.00005
         723169.14   4131306.07   0.00005   723192.12
4131296.21   0.00005
         723267.01   4131369.79   0.00005   723245.67
4131382.05   0.00005
         723222.69   4131391.91   0.00005   723199.72
4131401.76   0.00005
         723176.74   4131411.62   0.00005   723153.76
4131421.48   0.00005
         723130.79   4131431.33   0.00005   723107.81
4131441.19   0.00005

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                  INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         723084.84   4131451.04   0.00005   723061.86
4131460.90   0.00005
         723038.89   4131470.75   0.00005   723015.91
4131480.61   0.00005
         722992.94   4131490.46   0.00005   722969.96
4131500.32   0.00005
         722946.99   4131510.17   0.00005   722924.01
4131520.03   0.00005
         722901.03   4131529.88   0.00006   722878.06
4131539.74   0.00006
         722855.08   4131549.59   0.00006   722832.11
4131559.45   0.00006
         722809.13   4131569.30   0.00006   722786.16
4131579.16   0.00006
         722763.18   4131589.02   0.00006   722740.21

4131598.87 0.00006
722717.23 4131608.73 0.00006 722694.26
4131618.58 0.00006
722671.28 4131628.44 0.00006 722648.30
4131638.29 0.00006
722625.33 4131648.15 0.00006 722602.35
4131658.00 0.00006
722579.38 4131667.86 0.00006 722556.40
4131677.71 0.00006
722533.43 4131687.57 0.00006 722510.45
4131697.42 0.00007
722487.48 4131707.28 0.00007 722464.50
4131717.13 0.00007
722441.52 4131726.99 0.00007 722418.55
4131736.84 0.00007
722395.57 4131746.70 0.00007 722372.60
4131756.55 0.00007
722349.62 4131766.41 0.00007 722326.65
4131776.27 0.00007
722303.67 4131786.12 0.00007 722280.70
4131795.98 0.00007
722257.72 4131805.83 0.00008 722234.75
4131815.69 0.00008
722211.77 4131825.54 0.00008 722188.79
4131835.40 0.00008
722165.82 4131845.25 0.00008 722142.84
4131855.11 0.00008
722119.87 4131864.96 0.00008 722096.89
4131874.82 0.00008
722073.92 4131884.67 0.00009 722050.94
4131894.53 0.00009
722027.97 4131904.38 0.00009 722004.99
4131914.24 0.00009
721982.01 4131924.09 0.00009 721959.04
4131933.95 0.00009
721936.06 4131943.81 0.00010 721913.09
4131953.66 0.00010
721890.11 4131963.52 0.00010 721867.14
4131973.37 0.00010
721844.16 4131983.23 0.00010 721821.19
4131993.08 0.00011
721798.21 4132002.94 0.00011 721775.24
4132012.79 0.00011
721752.26 4132022.65 0.00011 721729.28
4132032.50 0.00012
721706.31 4132042.36 0.00012 721683.33
4132052.21 0.00012
721660.36 4132062.07 0.00012 721637.38
4132071.92 0.00013
721841.17 4132144.72 0.00009 721864.15

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4132134.89        0.00009
         721887.14    4132125.06        0.00009                       721910.12
4132115.23        0.00009
         721933.11    4132105.40        0.00009                       721956.09
4132095.56        0.00009
         721979.08    4132085.73        0.00008                       722002.07
4132075.90        0.00008
         722025.05    4132066.07        0.00008                       722048.04
4132056.24        0.00008
         722071.02    4132046.41        0.00008                       722094.01
4132036.57        0.00008
         722116.99    4132026.74        0.00008                       722139.98
4132016.91        0.00008
         722162.97    4132007.08        0.00007                       722185.95
4131997.25        0.00007
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                    PAGE 161
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722208.94    4131987.42        0.00007                       722231.92
4131977.58        0.00007
         722254.91    4131967.75        0.00007                       722277.89
4131957.92        0.00007
         722300.88    4131948.09        0.00007                       722323.86
4131938.26        0.00007
         722346.85    4131928.43        0.00007                       722369.84
4131918.60        0.00007
         722392.82    4131908.76        0.00006                       722415.81
4131898.93        0.00006
         722438.79    4131889.10        0.00006                       722461.78
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4131879.27 0.00006
722484.76 4131869.44 0.00006 722507.75
4131859.61 0.00006
722530.74 4131849.77 0.00006 722553.72
4131839.94 0.00006
722576.71 4131830.11 0.00006 722599.69
4131820.28 0.00006
722622.68 4131810.45 0.00006 722645.66
4131800.62 0.00006
722668.65 4131790.78 0.00006 722691.63
4131780.95 0.00006
722714.62 4131771.12 0.00006 722737.61
4131761.29 0.00005
722760.59 4131751.46 0.00005 722783.58
4131741.63 0.00005
722806.56 4131731.79 0.00005 722829.55
4131721.96 0.00005
722852.53 4131712.13 0.00005 722875.52
4131702.30 0.00005
722898.51 4131692.47 0.00005 722921.49
4131682.64 0.00005
722944.48 4131672.80 0.00005 722967.46
4131662.97 0.00005
722990.45 4131653.14 0.00005 723013.43
4131643.31 0.00005
723036.42 4131633.48 0.00005 723059.41
4131623.65 0.00005
723082.39 4131613.82 0.00005 723105.38
4131603.98 0.00005
723128.36 4131594.15 0.00005 723151.35
4131584.32 0.00005
723174.33 4131574.49 0.00005 723197.32
4131564.66 0.00005
723220.30 4131554.83 0.00005 723243.29
4131544.99 0.00005
723266.28 4131535.16 0.00005 723289.26
4131525.33 0.00004
723316.75 4131622.34 0.00004 723293.77
4131632.17 0.00004
723270.78 4131642.00 0.00004 723247.80
4131651.83 0.00004
723224.81 4131661.66 0.00004 723201.82
4131671.49 0.00004
723178.84 4131681.33 0.00004 723155.85
4131691.16 0.00005
723132.87 4131700.99 0.00005 723109.88
4131710.82 0.00005
723086.90 4131720.65 0.00005 723063.91
4131730.48 0.00005
723040.93 4131740.31 0.00005 723017.94

4131750.15   0.00005
         722994.95   4131759.98   0.00005   722971.97
4131769.81   0.00005
         722948.98   4131779.64   0.00005   722926.00
4131789.47   0.00005
         722903.01   4131799.30   0.00005   722880.03
4131809.14   0.00005
         722857.04   4131818.97   0.00005   722834.05
4131828.80   0.00005
         722811.07   4131838.63   0.00005   722788.08
4131848.46   0.00005
         722765.10   4131858.29   0.00005   722742.11
4131868.13   0.00005
         722719.13   4131877.96   0.00005   722696.14
4131887.79   0.00005
         722673.16   4131897.62   0.00005   722650.17
4131907.45   0.00006
         722627.18   4131917.28   0.00006   722604.20
4131927.12   0.00006

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                   INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                 PAREA19   , PAREA20   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722581.21   4131936.95   0.00006   722558.23
4131946.78   0.00006
         722535.24   4131956.61   0.00006   722512.26
4131966.44   0.00006
         722489.27   4131976.27   0.00006   722466.28
4131986.11   0.00006
         722443.30   4131995.94   0.00006   722420.31

4132005.77 0.00006
722397.33 4132015.60 0.00006 722374.34
4132025.43 0.00006
722351.36 4132035.26 0.00006 722328.37
4132045.09 0.00007
722305.38 4132054.93 0.00007 722282.40
4132064.76 0.00007
722259.41 4132074.59 0.00007 722236.43
4132084.42 0.00007
722213.44 4132094.25 0.00007 722190.46
4132104.08 0.00007
722167.47 4132113.92 0.00007 722144.49
4132123.75 0.00007
722121.50 4132133.58 0.00007 722098.51
4132143.41 0.00008
722075.53 4132153.24 0.00008 722052.54
4132163.07 0.00008
722029.56 4132172.91 0.00008 722006.57
4132182.74 0.00008
721983.59 4132192.57 0.00008 721960.60
4132202.40 0.00008
721937.61 4132212.23 0.00009 721914.63
4132222.06 0.00009
721891.64 4132231.90 0.00009 721853.38
4132064.29 0.00010
721876.36 4132054.46 0.00009 721899.34
4132044.62 0.00009
721922.33 4132034.78 0.00009 721945.31
4132024.94 0.00009
721968.29 4132015.11 0.00009 721991.28
4132005.27 0.00009
722014.26 4131995.43 0.00008 722037.24
4131985.59 0.00008
722060.23 4131975.75 0.00008 722083.21
4131965.92 0.00008
722106.19 4131956.08 0.00008 722129.17
4131946.24 0.00008
722152.16 4131936.40 0.00008 722175.14
4131926.57 0.00008
722198.12 4131916.73 0.00007 722221.11
4131906.89 0.00007
722244.09 4131897.05 0.00007 722267.07
4131887.22 0.00007
722290.06 4131877.38 0.00007 722313.04
4131867.54 0.00007
722336.02 4131857.70 0.00007 722359.01
4131847.86 0.00007
722381.99 4131838.03 0.00007 722404.97
4131828.19 0.00007
722427.95 4131818.35 0.00007 722450.94

4131808.51   0.00006
         722473.92   4131798.68   0.00006   722496.90
4131788.84   0.00006
         722519.89   4131779.00   0.00006   722542.87
4131769.16   0.00006
         722565.85   4131759.32   0.00006   722588.84
4131749.49   0.00006
         722611.82   4131739.65   0.00006   722634.80
4131729.81   0.00006
         722657.78   4131719.97   0.00006   722680.77
4131710.14   0.00006
         722703.75   4131700.30   0.00006   722726.73
4131690.46   0.00006
         722749.72   4131680.62   0.00006   722772.70
4131670.78   0.00006
         722795.68   4131660.95   0.00006   722818.67
4131651.11   0.00005
         722841.65   4131641.27   0.00005   722864.63
4131631.43   0.00005
         722887.61   4131621.60   0.00005   722910.60
4131611.76   0.00005
         722933.58   4131601.92   0.00005   722956.56
4131592.08   0.00005

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                  INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722979.55   4131582.24   0.00005   723002.53
4131572.41   0.00005
         723025.51   4131562.57   0.00005   723048.50

4131552.73 0.00005
723071.48 4131542.89 0.00005 723094.46
4131533.06 0.00005
723117.44 4131523.22 0.00005 723140.43
4131513.38 0.00005
723163.41 4131503.54 0.00005 723186.39
4131493.71 0.00005
723209.38 4131483.87 0.00005 723232.36
4131474.03 0.00005
723255.34 4131464.19 0.00005 723278.33
4131454.35 0.00005
723260.99 4131463.95 0.00005 723238.01
4131473.79 0.00005
723215.03 4131483.62 0.00005 723192.04
4131493.46 0.00005
723169.06 4131503.30 0.00005 723146.08
4131513.14 0.00005
723123.10 4131522.98 0.00005 723100.11
4131532.81 0.00005
723077.13 4131542.65 0.00005 723054.15
4131552.49 0.00005
723031.16 4131562.33 0.00005 723008.18
4131572.16 0.00005
722985.20 4131582.00 0.00005 722962.21
4131591.84 0.00005
722939.23 4131601.68 0.00005 722916.25
4131611.51 0.00005
722893.27 4131621.35 0.00005 722870.28
4131631.19 0.00005
722847.30 4131641.03 0.00005 722824.32
4131650.87 0.00005
722801.33 4131660.70 0.00006 722778.35
4131670.54 0.00006
722755.37 4131680.38 0.00006 722732.38
4131690.22 0.00006
722709.40 4131700.05 0.00006 722686.42
4131709.89 0.00006
722663.43 4131719.73 0.00006 722640.45
4131729.57 0.00006
722617.47 4131739.41 0.00006 722594.49
4131749.24 0.00006
722571.50 4131759.08 0.00006 722548.52
4131768.92 0.00006
722525.54 4131778.76 0.00006 722502.55
4131788.59 0.00006
722479.57 4131798.43 0.00006 722456.59
4131808.27 0.00006
722433.60 4131818.11 0.00007 722410.62
4131827.95 0.00007
722387.64 4131837.78 0.00007 722364.66

4131847.62   0.00007
         722341.67   4131857.46   0.00007   722318.69
4131867.30   0.00007
         722295.71   4131877.13   0.00007   722272.72
4131886.97   0.00007
         722249.74   4131896.81   0.00007   722226.76
4131906.65   0.00007
         722203.77   4131916.49   0.00007   722180.79
4131926.32   0.00008
         722157.81   4131936.16   0.00008   722134.83
4131946.00   0.00008
         722111.84   4131955.84   0.00008   722088.86
4131965.67   0.00008
         722065.88   4131975.51   0.00008   722042.89
4131985.35   0.00008
         722019.91   4131995.19   0.00008   721996.93
4132005.02   0.00009
         721973.94   4132014.86   0.00009   721950.96
4132024.70   0.00009
         721927.98   4132034.54   0.00009   721905.00
4132044.38   0.00009
         721882.01   4132054.21   0.00009   721859.03
4132064.05   0.00010
         722093.85   4131295.32   0.00012   722116.79
4131285.39   0.00011
         722139.74   4131275.46   0.00011   722162.68
4131265.53   0.00011

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                  INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -

- - - -

```
4131285.05        0.00010
         722220.50    4131294.98        0.00010                        722197.56
4131304.91        0.00011
         722174.62    4131314.84        0.00011                        722151.67
4131324.77        0.00011
         722128.73    4131334.71        0.00011                        722148.89
4131034.56        0.00012
         722171.91    4131024.81        0.00012                        722194.93
4131015.07        0.00012
         722217.96    4131005.32        0.00012                        722240.98
4130995.57        0.00011
         722264.00    4130985.83        0.00011                        722287.02
4130976.08        0.00011
         722310.04    4130966.33        0.00011                        722333.06
4130956.59        0.00011
         722356.09    4130946.84        0.00010                        722379.11
4130937.09        0.00010
         722402.13    4130927.35        0.00010                        722417.99
4130974.93        0.00010
         722394.97    4130984.68        0.00010                        722371.95
4130994.42        0.00010
         722348.92    4131004.17        0.00010                        722325.90
4131013.92        0.00010
         722302.88    4131023.66        0.00011                        722279.86
4131033.41        0.00011
         722256.84    4131043.16        0.00011                        722233.82
4131052.90        0.00011
         722210.79    4131062.65        0.00011                        722187.77
4131072.39        0.00012
         721461.30    4131276.70        0.00025                        721484.22
4131266.71        0.00024
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 165
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721507.14	4131256.72	0.00024	721530.06	4131246.74	0.00023
721552.97	4131236.75	0.00023	721575.89	4131226.76	0.00022
721598.81	4131216.78	0.00021	721621.73	4131206.79	0.00021
721644.65	4131196.80	0.00020	721667.57	4131186.82	0.00020
721690.49	4131176.83	0.00019	721713.41	4131166.84	0.00019
721736.32	4131156.86	0.00018	721759.24	4131146.87	0.00018
721782.16	4131136.88	0.00018	721805.08	4131126.90	0.00017
721828.00	4131116.91	0.00017	721850.92	4131106.92	0.00016
721873.84	4131096.94	0.00016	721896.76	4131086.95	0.00016
721903.62	4131127.59	0.00015	721880.70	4131137.58	0.00016
721857.78	4131147.57	0.00016	721834.87	4131157.55	0.00016
721811.95	4131167.54	0.00017	721789.03	4131177.53	0.00017
721766.11	4131187.51	0.00018	721743.19	4131197.50	0.00018
721720.27	4131207.48	0.00019	721697.35	4131217.47	0.00019
721674.43	4131227.46	0.00020	721651.52	4131237.44	0.00020
721628.60	4131247.43	0.00021	721605.68	4131257.42	0.00021
721582.76	4131267.40	0.00022	721559.84	4131277.39	0.00022
721536.92	4131287.38	0.00023	721514.00	4131297.36	0.00024
721491.08	4131307.35	0.00024	721412.42	4131178.31	0.00025
721435.37	4131168.40	0.00025	721458.32	4131158.48	0.00024
721481.27	4131148.57	0.00024	721504.22	4131138.66	0.00023
721527.17	4131128.74	0.00023	721550.13	4131118.83	0.00022
721573.08	4131108.92	0.00022	721596.03		

4131099.00   0.00021
         721618.98   4131089.09   0.00021   721641.93
4131079.18   0.00020
         721664.88   4131069.26   0.00020   721687.83
4131059.35   0.00019
         721710.78   4131049.44   0.00019   721733.73
4131039.52   0.00019
         721756.68   4131029.61   0.00018   721779.63
4131019.70   0.00018
         721802.58   4131009.78   0.00017   721825.53
4130999.87   0.00017
         721848.48   4130989.95   0.00017   721871.43
4130980.04   0.00016
         721894.38   4130970.13   0.00016   721917.33
4130960.21   0.00016
         721940.28   4130950.30   0.00015   721963.23
4130940.39   0.00015
         721986.18   4130930.47   0.00015   722009.13
4130920.56   0.00014
         722032.08   4130910.65   0.00014   722055.03
4130900.73   0.00014
         722077.99   4130890.82   0.00014   722100.94
4130880.91   0.00013
         722123.89   4130870.99   0.00013   722146.84
4130861.08   0.00013
         722169.79   4130851.17   0.00013   722192.74
4130841.25   0.00012
         722215.69   4130831.34   0.00012   722238.64
4130821.43   0.00012
         722261.59   4130811.51   0.00012   722284.54
4130801.60   0.00012
         722307.49   4130791.68   0.00011   722330.44
4130781.77   0.00011
         722374.04   4130839.19   0.00011   722351.09
4130849.10   0.00011

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                    INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                 PAREA19   , PAREA20   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722328.14	4130859.02	0.00011	722305.19	4130868.93	0.00011
722282.24	4130878.84	0.00011	722259.29	4130888.76	0.00012
722236.34	4130898.67	0.00012	722213.38	4130908.58	0.00012
722190.43	4130918.50	0.00012	722167.48	4130928.41	0.00012
722144.53	4130938.33	0.00013	722121.58	4130948.24	0.00013
722098.63	4130958.15	0.00013	722075.68	4130968.07	0.00013
722052.73	4130977.98	0.00014	722029.78	4130987.89	0.00014
722006.83	4130997.81	0.00014	721983.88	4131007.72	0.00015
721960.93	4131017.63	0.00015	721937.98	4131027.55	0.00015
721915.03	4131037.46	0.00015	721892.08	4131047.37	0.00016
721869.13	4131057.29	0.00016	721846.18	4131067.20	0.00017
721823.23	4131077.11	0.00017	721800.28	4131087.03	0.00017
721777.33	4131096.94	0.00018	721754.38	4131106.85	0.00018
721731.43	4131116.77	0.00019	721708.48	4131126.68	0.00019
721685.52	4131136.60	0.00019	721662.57	4131146.51	0.00020
721639.62	4131156.42	0.00020	721616.67	4131166.34	0.00021
721593.72	4131176.25	0.00021	721570.77	4131186.16	0.00022
721547.82	4131196.08	0.00023	721524.87	4131205.99	0.00023
721501.92	4131215.90	0.00024	721478.97	4131225.82	0.00024
721456.02	4131235.73	0.00025	721024.56	4133243.02	0.00013
720598.35	4133478.99	0.00013	721792.22		

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4132066.34        0.00010
         721583.83    4131986.08        0.00015                        721606.81
4131976.23        0.00015
         721629.78    4131966.37        0.00014                        721652.76
4131956.52        0.00014
         721675.73    4131946.66        0.00013                        721698.71
4131936.81        0.00013
         721721.69    4131926.95        0.00013                        721744.66
4131917.10        0.00012
         721767.64    4131907.24        0.00012                        721790.61
4131897.38        0.00012
         721813.59    4131887.53        0.00012                        721836.56
4131877.67        0.00011
         721859.54    4131867.82        0.00011                        721882.51
4131857.96        0.00011
         721905.49    4131848.11        0.00011                        721928.46
4131838.25        0.00010
         721951.44    4131828.40        0.00010                        721974.42
4131818.54        0.00010
         721997.39    4131808.69        0.00010                        722020.37
4131798.83        0.00010
         722043.34    4131788.98        0.00009                        722066.32
4131779.12        0.00009
         722089.29    4131769.27        0.00009                        722112.27
4131759.41        0.00009
         722135.24    4131749.56        0.00009                        722158.22
4131739.70        0.00009
         722181.20    4131729.85        0.00009                        722204.17
4131719.99        0.00008
         722227.15    4131710.13        0.00008                        722250.12
4131700.28        0.00008
         722273.10    4131690.42        0.00008                        722296.07
4131680.57        0.00008
         722319.05    4131670.71        0.00008                        722342.02
4131660.86        0.00008
         722365.00    4131651.00        0.00008                        722387.97
4131641.15        0.00007
         722410.95    4131631.29        0.00007                        722433.93
4131621.44        0.00007
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 167
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                     INCLUDING SOURCE(S):     PAREA14     , PAREA15
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 , PAREA16     , PAREA17     , PAREA18     ,
                 PAREA19     , PAREA20     ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722456.90    4131611.58        0.00007                       722479.88
4131601.73        0.00007
         722502.85    4131591.87        0.00007                       722525.83
4131582.02        0.00007
         722548.80    4131572.16        0.00007                       722571.78
4131562.31        0.00007
         722594.75    4131552.45        0.00007                       722617.73
4131542.59        0.00007
         722640.71    4131532.74        0.00007                       722663.68
4131522.88        0.00006
         722686.66    4131513.03        0.00006                       722709.63
4131503.17        0.00006
         722732.61    4131493.32        0.00006                       722755.58
4131483.46        0.00006
         722778.56    4131473.61        0.00006                       722801.53
4131463.75        0.00006
         722824.51    4131453.90        0.00006                       722847.48
4131444.04        0.00006
         722870.46    4131434.19        0.00006                       722893.44
4131424.33        0.00006
         722916.41    4131414.48        0.00006                       722939.39
4131404.62        0.00006
         722962.36    4131394.77        0.00006                       722985.34
4131384.91        0.00006
         723008.31    4131375.06        0.00006                       723031.29
4131365.20        0.00006
         723054.26    4131355.34        0.00005                       723077.24
4131345.49        0.00005
         723100.22    4131335.63        0.00005                       723123.19
4131325.78        0.00005
         723146.17    4131315.92        0.00005                       723169.14
4131306.07        0.00005
         723192.12    4131296.21        0.00005                       723267.01
4131369.79        0.00005
         723245.67    4131382.05        0.00005                       723222.69
4131391.91        0.00005
         723199.72    4131401.76        0.00005                       723176.74
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4131411.62        0.00005
         723153.76    4131421.48        0.00005                        723130.79
4131431.33        0.00005
         723107.81    4131441.19        0.00005                        723084.84
4131451.04        0.00005
         723061.86    4131460.90        0.00005                        723038.89
4131470.75        0.00005
         723015.91    4131480.61        0.00005                        722992.94
4131490.46        0.00005
         722969.96    4131500.32        0.00005                        722946.99
4131510.17        0.00005
         722924.01    4131520.03        0.00005                        722901.03
4131529.88        0.00006
         722878.06    4131539.74        0.00006                        722855.08
4131549.59        0.00006
         722832.11    4131559.45        0.00006                        722809.13
4131569.30        0.00006
         722786.16    4131579.16        0.00006                        722763.18
4131589.02        0.00006
         722740.21    4131598.87        0.00006                        722717.23
4131608.73        0.00006
         722694.26    4131618.58        0.00006                        722671.28
4131628.44        0.00006
         722648.30    4131638.29        0.00006                        722625.33
4131648.15        0.00006
         722602.35    4131658.00        0.00006                        722579.38
4131667.86        0.00006
         722556.40    4131677.71        0.00006                        722533.43
4131687.57        0.00006
         722510.45    4131697.42        0.00007                        722487.48
4131707.28        0.00007
         722464.50    4131717.13        0.00007                        722441.52
4131726.99        0.00007
         722418.55    4131736.84        0.00007                        722395.57
4131746.70        0.00007
         722372.60    4131756.55        0.00007                        722349.62
4131766.41        0.00007
         722326.65    4131776.27        0.00007                        722303.67
4131786.12        0.00007
         722280.70    4131795.98        0.00007                        722257.72
4131805.83        0.00008
         722234.75    4131815.69        0.00008                        722211.77
4131825.54        0.00008
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE 168
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***

INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722188.79	4131835.40	0.00008	722165.82	4131845.25	0.00008
722142.84	4131855.11	0.00008	722119.87	4131864.96	0.00008
722096.89	4131874.82	0.00008	722073.92	4131884.67	0.00009
722050.94	4131894.53	0.00009	722027.97	4131904.38	0.00009
722004.99	4131914.24	0.00009	721982.01	4131924.09	0.00009
721959.04	4131933.95	0.00009	721936.06	4131943.81	0.00010
721913.09	4131953.66	0.00010	721890.11	4131963.52	0.00010
721867.14	4131973.37	0.00010	721844.16	4131983.23	0.00010
721821.19	4131993.08	0.00011	721798.21	4132002.94	0.00011
721775.24	4132012.79	0.00011	721752.26	4132022.65	0.00011
721729.28	4132032.50	0.00012	721706.31	4132042.36	0.00012
721683.33	4132052.21	0.00012	721660.36	4132062.07	0.00012
721637.38	4132071.92	0.00013	721841.17	4132144.72	0.00009
721864.15	4132134.89	0.00009	721887.14	4132125.06	0.00009
721910.12	4132115.23	0.00009	721933.11	4132105.40	0.00009
721956.09	4132095.56	0.00009	721979.08	4132085.73	0.00008
722002.07	4132075.90	0.00008	722025.05		

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4132066.07        0.00008
         722048.04    4132056.24        0.00008                        722071.02
4132046.41        0.00008
         722094.01    4132036.57        0.00008                        722116.99
4132026.74        0.00008
         722139.98    4132016.91        0.00008                        722162.97
4132007.08        0.00007
         722185.95    4131997.25        0.00007                        722208.94
4131987.42        0.00007
         722231.92    4131977.58        0.00007                        722254.91
4131967.75        0.00007
         722277.89    4131957.92        0.00007                        722300.88
4131948.09        0.00007
         722323.86    4131938.26        0.00007                        722346.85
4131928.43        0.00007
         722369.84    4131918.60        0.00007                        722392.82
4131908.76        0.00006
         722415.81    4131898.93        0.00006                        722438.79
4131889.10        0.00006
         722461.78    4131879.27        0.00006                        722484.76
4131869.44        0.00006
         722507.75    4131859.61        0.00006                        722530.74
4131849.77        0.00006
         722553.72    4131839.94        0.00006                        722576.71
4131830.11        0.00006
         722599.69    4131820.28        0.00006                        722622.68
4131810.45        0.00006
         722645.66    4131800.62        0.00006                        722668.65
4131790.78        0.00006
         722691.63    4131780.95        0.00006                        722714.62
4131771.12        0.00006
         722737.61    4131761.29        0.00005                        722760.59
4131751.46        0.00005
         722783.58    4131741.63        0.00005                        722806.56
4131731.79        0.00005
         722829.55    4131721.96        0.00005                        722852.53
4131712.13        0.00005
         722875.52    4131702.30        0.00005                        722898.51
4131692.47        0.00005
         722921.49    4131682.64        0.00005                        722944.48
4131672.80        0.00005
         722967.46    4131662.97        0.00005                        722990.45
4131653.14        0.00005
         723013.43    4131643.31        0.00005                        723036.42
4131633.48        0.00005
         723059.41    4131623.65        0.00005                        723082.39
4131613.82        0.00005
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                              ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
723105.38	4131603.98	0.00005	723128.36	4131594.15	0.00005
723151.35	4131584.32	0.00005	723174.33	4131574.49	0.00005
723197.32	4131564.66	0.00005	723220.30	4131554.83	0.00005
723243.29	4131544.99	0.00005	723266.28	4131535.16	0.00005
723289.26	4131525.33	0.00004	723316.75	4131622.34	0.00004
723293.77	4131632.17	0.00004	723270.78	4131642.00	0.00004
723247.80	4131651.83	0.00004	723224.81	4131661.66	0.00004
723201.82	4131671.49	0.00004	723178.84	4131681.33	0.00004
723155.85	4131691.16	0.00005	723132.87	4131700.99	0.00005
723109.88	4131710.82	0.00005	723086.90	4131720.65	0.00005
723063.91	4131730.48	0.00005	723040.93	4131740.31	0.00005
723017.94	4131750.15	0.00005	722994.95	4131759.98	0.00005
722971.97	4131769.81	0.00005	722948.98	4131779.64	0.00005
722926.00	4131789.47	0.00005	722903.01	4131799.30	0.00005
722880.03	4131809.14	0.00005	722857.04		

4131818.97 0.00005
722834.05 4131828.80 0.00005 722811.07
4131838.63 0.00005
722788.08 4131848.46 0.00005 722765.10
4131858.29 0.00005
722742.11 4131868.13 0.00005 722719.13
4131877.96 0.00005
722696.14 4131887.79 0.00005 722673.16
4131897.62 0.00005
722650.17 4131907.45 0.00006 722627.18
4131917.28 0.00006
722604.20 4131927.12 0.00006 722581.21
4131936.95 0.00006
722558.23 4131946.78 0.00006 722535.24
4131956.61 0.00006
722512.26 4131966.44 0.00006 722489.27
4131976.27 0.00006
722466.28 4131986.11 0.00006 722443.30
4131995.94 0.00006
722420.31 4132005.77 0.00006 722397.33
4132015.60 0.00006
722374.34 4132025.43 0.00006 722351.36
4132035.26 0.00006
722328.37 4132045.09 0.00007 722305.38
4132054.93 0.00007
722282.40 4132064.76 0.00007 722259.41
4132074.59 0.00007
722236.43 4132084.42 0.00007 722213.44
4132094.25 0.00007
722190.46 4132104.08 0.00007 722167.47
4132113.92 0.00007
722144.49 4132123.75 0.00007 722121.50
4132133.58 0.00007
722098.51 4132143.41 0.00008 722075.53
4132153.24 0.00008
722052.54 4132163.07 0.00008 722029.56
4132172.91 0.00008
722006.57 4132182.74 0.00008 721983.59
4132192.57 0.00008
721960.60 4132202.40 0.00008 721937.61
4132212.23 0.00009
721914.63 4132222.06 0.00009 721891.64
4132231.90 0.00009
721853.38 4132064.29 0.00010 721876.36
4132054.46 0.00009
721899.34 4132044.62 0.00009 721922.33
4132034.78 0.00009
721945.31 4132024.94 0.00009 721968.29
4132015.11 0.00009
721991.28 4132005.27 0.00009 722014.26

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                  INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                 PAREA19   , PAREA20   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722037.24   4131985.59   0.00008   722060.23
4131975.75   0.00008
         722083.21   4131965.92   0.00008   722106.19
4131956.08   0.00008
         722129.17   4131946.24   0.00008   722152.16
4131936.40   0.00008
         722175.14   4131926.57   0.00008   722198.12
4131916.73   0.00007
         722221.11   4131906.89   0.00007   722244.09
4131897.05   0.00007
         722267.07   4131887.22   0.00007   722290.06
4131877.38   0.00007
         722313.04   4131867.54   0.00007   722336.02
4131857.70   0.00007
         722359.01   4131847.86   0.00007   722381.99
4131838.03   0.00007
         722404.97   4131828.19   0.00007   722427.95
4131818.35   0.00007
         722450.94   4131808.51   0.00006   722473.92
4131798.68   0.00006
         722496.90   4131788.84   0.00006   722519.89
4131779.00   0.00006
         722542.87   4131769.16   0.00006   722565.85
4131759.32   0.00006
         722588.84   4131749.49   0.00006   722611.82

4131739.65 0.00006
722634.80 4131729.81 0.00006 722657.78
4131719.97 0.00006
722680.77 4131710.14 0.00006 722703.75
4131700.30 0.00006
722726.73 4131690.46 0.00006 722749.72
4131680.62 0.00006
722772.70 4131670.78 0.00006 722795.68
4131660.95 0.00006
722818.67 4131651.11 0.00005 722841.65
4131641.27 0.00005
722864.63 4131631.43 0.00005 722887.61
4131621.60 0.00005
722910.60 4131611.76 0.00005 722933.58
4131601.92 0.00005
722956.56 4131592.08 0.00005 722979.55
4131582.24 0.00005
723002.53 4131572.41 0.00005 723025.51
4131562.57 0.00005
723048.50 4131552.73 0.00005 723071.48
4131542.89 0.00005
723094.46 4131533.06 0.00005 723117.44
4131523.22 0.00005
723140.43 4131513.38 0.00005 723163.41
4131503.54 0.00005
723186.39 4131493.71 0.00005 723209.38
4131483.87 0.00005
723232.36 4131474.03 0.00005 723255.34
4131464.19 0.00005
723278.33 4131454.35 0.00005 723260.99
4131463.95 0.00005
723238.01 4131473.79 0.00005 723215.03
4131483.62 0.00005
723192.04 4131493.46 0.00005 723169.06
4131503.30 0.00005
723146.08 4131513.14 0.00005 723123.10
4131522.98 0.00005
723100.11 4131532.81 0.00005 723077.13
4131542.65 0.00005
723054.15 4131552.49 0.00005 723031.16
4131562.33 0.00005
723008.18 4131572.16 0.00005 722985.20
4131582.00 0.00005
722962.21 4131591.84 0.00005 722939.23
4131601.68 0.00005
722916.25 4131611.51 0.00005 722893.27
4131621.35 0.00005
722870.28 4131631.19 0.00005 722847.30
4131641.03 0.00005
722824.32 4131650.87 0.00005 722801.33

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722686.42	4131709.89	0.00006	722663.43	4131719.73	0.00006
722640.45	4131729.57	0.00006	722617.47	4131739.41	0.00006
722594.49	4131749.24	0.00006	722571.50	4131759.08	0.00006
722548.52	4131768.92	0.00006	722525.54	4131778.76	0.00006
722502.55	4131788.59	0.00006	722479.57	4131798.43	0.00006
722456.59	4131808.27	0.00006	722433.60	4131818.11	0.00007
722410.62	4131827.95	0.00007	722387.64	4131837.78	0.00007
722364.66	4131847.62	0.00007	722341.67	4131857.46	0.00007
722318.69	4131867.30	0.00007	722295.71	4131877.13	0.00007
722272.72	4131886.97	0.00007	722249.74	4131896.81	0.00007
722226.76	4131906.65	0.00007	722203.77		

4131916.49 0.00007
722180.79 4131926.32 0.00008 722157.81
4131936.16 0.00008
722134.83 4131946.00 0.00008 722111.84
4131955.84 0.00008
722088.86 4131965.67 0.00008 722065.88
4131975.51 0.00008
722042.89 4131985.35 0.00008 722019.91
4131995.19 0.00008
721996.93 4132005.02 0.00009 721973.94
4132014.86 0.00009
721950.96 4132024.70 0.00009 721927.98
4132034.54 0.00009
721905.00 4132044.38 0.00009 721882.01
4132054.21 0.00009
721859.03 4132064.05 0.00010 722093.85
4131295.32 0.00012
722116.79 4131285.39 0.00011 722139.74
4131275.46 0.00011
722162.68 4131265.53 0.00011 722185.62
4131255.59 0.00011
722208.57 4131245.66 0.00011 722231.51
4131235.73 0.00010
722254.45 4131225.80 0.00010 722277.39
4131215.87 0.00010
722300.34 4131205.94 0.00010 722323.28
4131196.00 0.00010
722346.22 4131186.07 0.00010 722369.16
4131176.14 0.00010
722392.11 4131166.21 0.00009 722415.05
4131156.28 0.00009
722437.99 4131146.35 0.00009 722460.93
4131136.42 0.00009
722483.88 4131126.48 0.00009 722506.82
4131116.55 0.00009
722529.76 4131106.62 0.00009 722552.71
4131096.69 0.00008
722575.65 4131086.76 0.00008 722598.59
4131076.83 0.00008
722621.53 4131066.89 0.00008 722644.48
4131056.96 0.00008
722667.42 4131047.03 0.00008 722690.36
4131037.10 0.00008
722713.30 4131027.17 0.00008 722736.25
4131017.24 0.00008
722759.19 4131007.31 0.00008 722771.12
4131056.62 0.00007
722748.18 4131066.55 0.00007 722725.24
4131076.49 0.00008
722702.30 4131086.42 0.00008 722679.35

4131096.35 0.00008
  722656.41 4131106.28 0.00008 722633.47
4131116.21 0.00008
  722610.53 4131126.14 0.00008 722587.58
4131136.07 0.00008
  722564.64 4131146.01 0.00008 722541.70
4131155.94 0.00008
  722518.76 4131165.87 0.00008 722495.81
4131175.80 0.00009

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722472.87	4131185.73	0.00009	722449.93	4131195.66	0.00009
722426.99	4131205.60	0.00009	722404.04	4131215.53	0.00009
722381.10	4131225.46	0.00009	722358.16	4131235.39	0.00009
722335.21	4131245.32	0.00010	722312.27	4131255.25	0.00010
722289.33	4131265.18	0.00010	722266.39	4131275.12	0.00010
722243.44	4131285.05	0.00010	722220.50	4131294.98	0.00010
722197.56	4131304.91	0.00011	722174.62	4131314.84	0.00011
722151.67	4131324.77	0.00011	722128.73	4131334.71	0.00011
722148.89	4131034.56	0.00012	722171.91		

4131024.81 0.00012
722194.93 4131015.07 0.00012 722217.96
4131005.32 0.00012
722240.98 4130995.57 0.00011 722264.00
4130985.83 0.00011
722287.02 4130976.08 0.00011 722310.04
4130966.33 0.00011
722333.06 4130956.59 0.00011 722356.09
4130946.84 0.00010
722379.11 4130937.09 0.00010 722402.13
4130927.35 0.00010
722417.99 4130974.93 0.00010 722394.97
4130984.68 0.00010
722371.95 4130994.42 0.00010 722348.92
4131004.17 0.00010
722325.90 4131013.92 0.00010 722302.88
4131023.66 0.00011
722279.86 4131033.41 0.00011 722256.84
4131043.16 0.00011
722233.82 4131052.90 0.00011 722210.79
4131062.65 0.00011
722187.77 4131072.39 0.00012 721461.30
4131276.70 0.00025
721484.22 4131266.71 0.00024 721507.14
4131256.72 0.00024
721530.06 4131246.74 0.00023 721552.97
4131236.75 0.00023
721575.89 4131226.76 0.00022 721598.81
4131216.78 0.00021
721621.73 4131206.79 0.00021 721644.65
4131196.80 0.00020
721667.57 4131186.82 0.00020 721690.49
4131176.83 0.00019
721713.41 4131166.84 0.00019 721736.32
4131156.86 0.00018
721759.24 4131146.87 0.00018 721782.16
4131136.88 0.00018
721805.08 4131126.90 0.00017 721828.00
4131116.91 0.00017
721850.92 4131106.92 0.00016 721873.84
4131096.94 0.00016
721896.76 4131086.95 0.00016 721903.62
4131127.59 0.00015
721880.70 4131137.58 0.00016 721857.78
4131147.57 0.00016
721834.87 4131157.55 0.00016 721811.95
4131167.54 0.00017
721789.03 4131177.53 0.00017 721766.11
4131187.51 0.00018
721743.19 4131197.50 0.00018 721720.27

4131207.48 0.00019
  721697.35 4131217.47 0.00019 721674.43
4131227.46 0.00020
  721651.52 4131237.44 0.00020 721628.60
4131247.43 0.00021
  721605.68 4131257.42 0.00021 721582.76
4131267.40 0.00022
  721559.84 4131277.39 0.00022 721536.92
4131287.38 0.00023
  721514.00 4131297.36 0.00024 721491.08
4131307.35 0.00024
  721412.42 4131178.31 0.00025 721435.37
4131168.40 0.00025

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721458.32	4131158.48	0.00024	721481.27	4131148.57	0.00024
721504.22	4131138.66	0.00023	721527.17	4131128.74	0.00023
721550.13	4131118.83	0.00022	721573.08	4131108.92	0.00022
721596.03	4131099.00	0.00021	721618.98	4131089.09	0.00021
721641.93	4131079.18	0.00020	721664.88	4131069.26	0.00020
721687.83	4131059.35	0.00019	721710.78	4131049.44	0.00019
721733.73	4131039.52	0.00019	721756.68		

4131029.61 0.00018
721779.63 4131019.70 0.00018 721802.58
4131009.78 0.00017
721825.53 4130999.87 0.00017 721848.48
4130989.95 0.00017
721871.43 4130980.04 0.00016 721894.38
4130970.13 0.00016
721917.33 4130960.21 0.00016 721940.28
4130950.30 0.00015
721963.23 4130940.39 0.00015 721986.18
4130930.47 0.00015
722009.13 4130920.56 0.00014 722032.08
4130910.65 0.00014
722055.03 4130900.73 0.00014 722077.99
4130890.82 0.00014
722100.94 4130880.91 0.00013 722123.89
4130870.99 0.00013
722146.84 4130861.08 0.00013 722169.79
4130851.17 0.00013
722192.74 4130841.25 0.00012 722215.69
4130831.34 0.00012
722238.64 4130821.43 0.00012 722261.59
4130811.51 0.00012
722284.54 4130801.60 0.00012 722307.49
4130791.68 0.00011
722330.44 4130781.77 0.00011 722374.04
4130839.19 0.00011
722351.09 4130849.10 0.00011 722328.14
4130859.02 0.00011
722305.19 4130868.93 0.00011 722282.24
4130878.84 0.00011
722259.29 4130888.76 0.00012 722236.34
4130898.67 0.00012
722213.38 4130908.58 0.00012 722190.43
4130918.50 0.00012
722167.48 4130928.41 0.00012 722144.53
4130938.33 0.00013
722121.58 4130948.24 0.00013 722098.63
4130958.15 0.00013
722075.68 4130968.07 0.00013 722052.73
4130977.98 0.00014
722029.78 4130987.89 0.00014 722006.83
4130997.81 0.00014
721983.88 4131007.72 0.00015 721960.93
4131017.63 0.00015
721937.98 4131027.55 0.00015 721915.03
4131037.46 0.00015
721892.08 4131047.37 0.00016 721869.13
4131057.29 0.00016
721846.18 4131067.20 0.00017 721823.23

4131077.11   0.00017
         721800.28   4131087.03   0.00017   721777.33
4131096.94   0.00018
         721754.38   4131106.85   0.00018   721731.43
4131116.77   0.00019
         721708.48   4131126.68   0.00019   721685.52
4131136.60   0.00019
         721662.57   4131146.51   0.00020   721639.62
4131156.42   0.00020
         721616.67   4131166.34   0.00021   721593.72
4131176.25   0.00021
         721570.77   4131186.16   0.00022   721547.82
4131196.08   0.00023
         721524.87   4131205.99   0.00023   721501.92
4131215.90   0.00024
         721478.97   4131225.82   0.00024   721456.02
4131235.73   0.00025

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                   INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

4131926.95 0.00013
721744.66 4131917.10 0.00012 721767.64
4131907.24 0.00012
721790.61 4131897.38 0.00012 721813.59
4131887.53 0.00012
721836.56 4131877.67 0.00011 721859.54
4131867.82 0.00011
721882.51 4131857.96 0.00011 721905.49
4131848.11 0.00011
721928.46 4131838.25 0.00010 721951.44
4131828.40 0.00010
721974.42 4131818.54 0.00010 721997.39
4131808.69 0.00010
722020.37 4131798.83 0.00010 722043.34
4131788.98 0.00009
722066.32 4131779.12 0.00009 722089.29
4131769.27 0.00009
722112.27 4131759.41 0.00009 722135.24
4131749.56 0.00009
722158.22 4131739.70 0.00009 722181.20
4131729.85 0.00009
722204.17 4131719.99 0.00008 722227.15
4131710.13 0.00008
722250.12 4131700.28 0.00008 722273.10
4131690.42 0.00008
722296.07 4131680.57 0.00008 722319.05
4131670.71 0.00008
722342.02 4131660.86 0.00008 722365.00
4131651.00 0.00008
722387.97 4131641.15 0.00007 722410.95
4131631.29 0.00007
722433.93 4131621.44 0.00007 722456.90
4131611.58 0.00007
722479.88 4131601.73 0.00007 722502.85
4131591.87 0.00007
722525.83 4131582.02 0.00007 722548.80
4131572.16 0.00007
722571.78 4131562.31 0.00007 722594.75
4131552.45 0.00007
722617.73 4131542.59 0.00007 722640.71
4131532.74 0.00007
722663.68 4131522.88 0.00006 722686.66
4131513.03 0.00006
722709.63 4131503.17 0.00006 722732.61
4131493.32 0.00006
722755.58 4131483.46 0.00006 722778.56
4131473.61 0.00006
722801.53 4131463.75 0.00006 722824.51
4131453.90 0.00006
722847.48 4131444.04 0.00006 722870.46

4131434.19   0.00006
         722893.44   4131424.33   0.00006   722916.41
4131414.48   0.00006
         722939.39   4131404.62   0.00006   722962.36
4131394.77   0.00006
         722985.34   4131384.91   0.00006   723008.31
4131375.06   0.00006
         723031.29   4131365.20   0.00006   723054.26
4131355.34   0.00005
         723077.24   4131345.49   0.00005   723100.22
4131335.63   0.00005
         723123.19   4131325.78   0.00005   723146.17
4131315.92   0.00005
         723169.14   4131306.07   0.00005   723192.12
4131296.21   0.00005
         723267.01   4131369.79   0.00005   723245.67
4131382.05   0.00005
         723222.69   4131391.91   0.00005   723199.72
4131401.76   0.00005
         723176.74   4131411.62   0.00005   723153.76
4131421.48   0.00005

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                  INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         723130.79   4131431.33   0.00005   723107.81
4131441.19   0.00005
         723084.84   4131451.04   0.00005   723061.86
4131460.90   0.00005
         723038.89   4131470.75   0.00005   723015.91

4131480.61 0.00005
722992.94 4131490.46 0.00005 722969.96
4131500.32 0.00005
722946.99 4131510.17 0.00005 722924.01
4131520.03 0.00005
722901.03 4131529.88 0.00006 722878.06
4131539.74 0.00006
722855.08 4131549.59 0.00006 722832.11
4131559.45 0.00006
722809.13 4131569.30 0.00006 722786.16
4131579.16 0.00006
722763.18 4131589.02 0.00006 722740.21
4131598.87 0.00006
722717.23 4131608.73 0.00006 722694.26
4131618.58 0.00006
722671.28 4131628.44 0.00006 722648.30
4131638.29 0.00006
722625.33 4131648.15 0.00006 722602.35
4131658.00 0.00006
722579.38 4131667.86 0.00006 722556.40
4131677.71 0.00006
722533.43 4131687.57 0.00006 722510.45
4131697.42 0.00007
722487.48 4131707.28 0.00007 722464.50
4131717.13 0.00007
722441.52 4131726.99 0.00007 722418.55
4131736.84 0.00007
722395.57 4131746.70 0.00007 722372.60
4131756.55 0.00007
722349.62 4131766.41 0.00007 722326.65
4131776.27 0.00007
722303.67 4131786.12 0.00007 722280.70
4131795.98 0.00007
722257.72 4131805.83 0.00008 722234.75
4131815.69 0.00008
722211.77 4131825.54 0.00008 722188.79
4131835.40 0.00008
722165.82 4131845.25 0.00008 722142.84
4131855.11 0.00008
722119.87 4131864.96 0.00008 722096.89
4131874.82 0.00008
722073.92 4131884.67 0.00009 722050.94
4131894.53 0.00009
722027.97 4131904.38 0.00009 722004.99
4131914.24 0.00009
721982.01 4131924.09 0.00009 721959.04
4131933.95 0.00009
721936.06 4131943.81 0.00010 721913.09
4131953.66 0.00010
721890.11 4131963.52 0.00010 721867.14

4131973.37   0.00010
         721844.16   4131983.23   0.00010   721821.19
4131993.08   0.00011
         721798.21   4132002.94   0.00011   721775.24
4132012.79   0.00011
         721752.26   4132022.65   0.00011   721729.28
4132032.50   0.00012
         721706.31   4132042.36   0.00012   721683.33
4132052.21   0.00012
         721660.36   4132062.07   0.00012   721637.38
4132071.92   0.00013
         721841.17   4132144.72   0.00009   721864.15
4132134.89   0.00009
         721887.14   4132125.06   0.00009   721910.12
4132115.23   0.00009
         721933.11   4132105.40   0.00009   721956.09
4132095.56   0.00009
         721979.08   4132085.73   0.00008   722002.07
4132075.90   0.00008
         722025.05   4132066.07   0.00008   722048.04
4132056.24   0.00008
         722071.02   4132046.41   0.00008   722094.01
4132036.57   0.00008
         722116.99   4132026.74   0.00008   722139.98
4132016.91   0.00008

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                   INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722162.97   4132007.08   0.00007   722185.95

4131997.25 0.00007
722208.94 4131987.42 0.00007 722231.92
4131977.58 0.00007
722254.91 4131967.75 0.00007 722277.89
4131957.92 0.00007
722300.88 4131948.09 0.00007 722323.86
4131938.26 0.00007
722346.85 4131928.43 0.00007 722369.84
4131918.60 0.00007
722392.82 4131908.76 0.00006 722415.81
4131898.93 0.00006
722438.79 4131889.10 0.00006 722461.78
4131879.27 0.00006
722484.76 4131869.44 0.00006 722507.75
4131859.61 0.00006
722530.74 4131849.77 0.00006 722553.72
4131839.94 0.00006
722576.71 4131830.11 0.00006 722599.69
4131820.28 0.00006
722622.68 4131810.45 0.00006 722645.66
4131800.62 0.00006
722668.65 4131790.78 0.00006 722691.63
4131780.95 0.00006
722714.62 4131771.12 0.00006 722737.61
4131761.29 0.00005
722760.59 4131751.46 0.00005 722783.58
4131741.63 0.00005
722806.56 4131731.79 0.00005 722829.55
4131721.96 0.00005
722852.53 4131712.13 0.00005 722875.52
4131702.30 0.00005
722898.51 4131692.47 0.00005 722921.49
4131682.64 0.00005
722944.48 4131672.80 0.00005 722967.46
4131662.97 0.00005
722990.45 4131653.14 0.00005 723013.43
4131643.31 0.00005
723036.42 4131633.48 0.00005 723059.41
4131623.65 0.00005
723082.39 4131613.82 0.00005 723105.38
4131603.98 0.00005
723128.36 4131594.15 0.00005 723151.35
4131584.32 0.00005
723174.33 4131574.49 0.00005 723197.32
4131564.66 0.00005
723220.30 4131554.83 0.00005 723243.29
4131544.99 0.00005
723266.28 4131535.16 0.00005 723289.26
4131525.33 0.00004
723316.75 4131622.34 0.00004 723293.77

```
4131632.17        0.00004
         723270.78    4131642.00        0.00004                        723247.80
4131651.83        0.00004
         723224.81    4131661.66        0.00004                        723201.82
4131671.49        0.00004
         723178.84    4131681.33        0.00004                        723155.85
4131691.16        0.00005
         723132.87    4131700.99        0.00005                        723109.88
4131710.82        0.00005
         723086.90    4131720.65        0.00005                        723063.91
4131730.48        0.00005
         723040.93    4131740.31        0.00005                        723017.94
4131750.15        0.00005
         722994.95    4131759.98        0.00005                        722971.97
4131769.81        0.00005
         722948.98    4131779.64        0.00005                        722926.00
4131789.47        0.00005
         722903.01    4131799.30        0.00005                        722880.03
4131809.14        0.00005
         722857.04    4131818.97        0.00005                        722834.05
4131828.80        0.00005
         722811.07    4131838.63        0.00005                        722788.08
4131848.46        0.00005
         722765.10    4131858.29        0.00005                        722742.11
4131868.13        0.00005
         722719.13    4131877.96        0.00005                        722696.14
4131887.79        0.00005
         722673.16    4131897.62        0.00005                        722650.17
4131907.45        0.00006
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                PAREA19     , PAREA20     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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4131926.57   0.00008
         722198.12   4131916.73   0.00007   722221.11
4131906.89   0.00007
         722244.09   4131897.05   0.00007   722267.07
4131887.22   0.00007
         722290.06   4131877.38   0.00007   722313.04
4131867.54   0.00007
         722336.02   4131857.70   0.00007   722359.01
4131847.86   0.00007
         722381.99   4131838.03   0.00007   722404.97
4131828.19   0.00007
         722427.95   4131818.35   0.00007   722450.94
4131808.51   0.00006
         722473.92   4131798.68   0.00006   722496.90
4131788.84   0.00006
         722519.89   4131779.00   0.00006   722542.87
4131769.16   0.00006
         722565.85   4131759.32   0.00006   722588.84
4131749.49   0.00006
         722611.82   4131739.65   0.00006   722634.80
4131729.81   0.00006
         722657.78   4131719.97   0.00006   722680.77
4131710.14   0.00006
         722703.75   4131700.30   0.00006   722726.73
4131690.46   0.00006
         722749.72   4131680.62   0.00006   722772.70
4131670.78   0.00006
         722795.68   4131660.95   0.00006   722818.67
4131651.11   0.00005
         722841.65   4131641.27   0.00005   722864.63
4131631.43   0.00005
         722887.61   4131621.60   0.00005   722910.60
4131611.76   0.00005

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR   ***
                                   INCLUDING SOURCE(S):   PAREA14   , PAREA15
 , PAREA16   , PAREA17   , PAREA18   ,
                PAREA19   , PAREA20   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722933.58	4131601.92	0.00005	722956.56	4131592.08	0.00005
722979.55	4131582.24	0.00005	723002.53	4131572.41	0.00005
723025.51	4131562.57	0.00005	723048.50	4131552.73	0.00005
723071.48	4131542.89	0.00005	723094.46	4131533.06	0.00005
723117.44	4131523.22	0.00005	723140.43	4131513.38	0.00005
723163.41	4131503.54	0.00005	723186.39	4131493.71	0.00005
723209.38	4131483.87	0.00005	723232.36	4131474.03	0.00005
723255.34	4131464.19	0.00005	723278.33	4131454.35	0.00005
723260.99	4131463.95	0.00005	723238.01	4131473.79	0.00005
723215.03	4131483.62	0.00005	723192.04	4131493.46	0.00005
723169.06	4131503.30	0.00005	723146.08	4131513.14	0.00005
723123.10	4131522.98	0.00005	723100.11	4131532.81	0.00005
723077.13	4131542.65	0.00005	723054.15	4131552.49	0.00005
723031.16	4131562.33	0.00005	723008.18	4131572.16	0.00005
722985.20	4131582.00	0.00005	722962.21	4131591.84	0.00005
722939.23	4131601.68	0.00005	722916.25	4131611.51	0.00005
722893.27	4131621.35	0.00005	722870.28	4131631.19	0.00005
722847.30	4131641.03	0.00005	722824.32	4131650.87	0.00005
722801.33	4131660.70	0.00006	722778.35	4131670.54	0.00006
722755.37	4131680.38	0.00006	722732.38	4131690.22	0.00006
722709.40	4131700.05	0.00006	722686.42	4131709.89	0.00006
722663.43	4131719.73	0.00006	722640.45		

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4131729.57        0.00006
         722617.47    4131739.41        0.00006                        722594.49
4131749.24        0.00006
         722571.50    4131759.08        0.00006                        722548.52
4131768.92        0.00006
         722525.54    4131778.76        0.00006                        722502.55
4131788.59        0.00006
         722479.57    4131798.43        0.00006                        722456.59
4131808.27        0.00006
         722433.60    4131818.11        0.00007                        722410.62
4131827.95        0.00007
         722387.64    4131837.78        0.00007                        722364.66
4131847.62        0.00007
         722341.67    4131857.46        0.00007                        722318.69
4131867.30        0.00007
         722295.71    4131877.13        0.00007                        722272.72
4131886.97        0.00007
         722249.74    4131896.81        0.00007                        722226.76
4131906.65        0.00007
         722203.77    4131916.49        0.00007                        722180.79
4131926.32        0.00008
         722157.81    4131936.16        0.00008                        722134.83
4131946.00        0.00008
         722111.84    4131955.84        0.00008                        722088.86
4131965.67        0.00008
         722065.88    4131975.51        0.00008                        722042.89
4131985.35        0.00008
         722019.91    4131995.19        0.00008                        721996.93
4132005.02        0.00009
         721973.94    4132014.86        0.00009                        721950.96
4132024.70        0.00009
         721927.98    4132034.54        0.00009                        721905.00
4132044.38        0.00009
         721882.01    4132054.21        0.00009                        721859.03
4132064.05        0.00010
         722093.85    4131295.32        0.00012                        722116.79
4131285.39        0.00011
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 179
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SOLAR    ***
                                    INCLUDING SOURCE(S):     PAREA14     , PAREA15
 , PAREA16     , PAREA17     , PAREA18     ,
                PAREA19     , PAREA20     ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722139.74	4131275.46	0.00011	722162.68	4131265.53	0.00011
722185.62	4131255.59	0.00011	722208.57	4131245.66	0.00011
722231.51	4131235.73	0.00010	722254.45	4131225.80	0.00010
722277.39	4131215.87	0.00010	722300.34	4131205.94	0.00010
722323.28	4131196.00	0.00010	722346.22	4131186.07	0.00010
722369.16	4131176.14	0.00010	722392.11	4131166.21	0.00009
722415.05	4131156.28	0.00009	722437.99	4131146.35	0.00009
722460.93	4131136.42	0.00009	722483.88	4131126.48	0.00009
722506.82	4131116.55	0.00009	722529.76	4131106.62	0.00009
722552.71	4131096.69	0.00008	722575.65	4131086.76	0.00008
722598.59	4131076.83	0.00008	722621.53	4131066.89	0.00008
722644.48	4131056.96	0.00008	722667.42	4131047.03	0.00008
722690.36	4131037.10	0.00008	722713.30	4131027.17	0.00008
722736.25	4131017.24	0.00008	722759.19	4131007.31	0.00008
722771.12	4131056.62	0.00007	722748.18	4131066.55	0.00007
722725.24	4131076.49	0.00008	722702.30	4131086.42	0.00008
722679.35	4131096.35	0.00008	722656.41	4131106.28	0.00008
722633.47	4131116.21	0.00008	722610.53	4131126.14	0.00008
722587.58	4131136.07	0.00008	722564.64	4131146.01	0.00008
722541.70	4131155.94	0.00008	722518.76		

4131165.87   0.00008
         722495.81   4131175.80   0.00009   722472.87
4131185.73   0.00009
         722449.93   4131195.66   0.00009   722426.99
4131205.60   0.00009
         722404.04   4131215.53   0.00009   722381.10
4131225.46   0.00009
         722358.16   4131235.39   0.00009   722335.21
4131245.32   0.00010
         722312.27   4131255.25   0.00010   722289.33
4131265.18   0.00010
         722266.39   4131275.12   0.00010   722243.44
4131285.05   0.00010
         722220.50   4131294.98   0.00010   722197.56
4131304.91   0.00011
         722174.62   4131314.84   0.00011   722151.67
4131324.77   0.00011
         722128.73   4131334.71   0.00011   722148.89
4131034.56   0.00012
         722171.91   4131024.81   0.00012   722194.93
4131015.07   0.00012
         722217.96   4131005.32   0.00012   722240.98
4130995.57   0.00011
         722264.00   4130985.83   0.00011   722287.02
4130976.08   0.00011
         722310.04   4130966.33   0.00011   722333.06
4130956.59   0.00011
         722356.09   4130946.84   0.00010   722379.11
4130937.09   0.00010
         722402.13   4130927.35   0.00010   722417.99
4130974.93   0.00010
         722394.97   4130984.68   0.00010   722371.95
4130994.42   0.00010
         722348.92   4131004.17   0.00010   722325.90
4131013.92   0.00010
         722302.88   4131023.66   0.00011   722279.86
4131033.41   0.00011
         722256.84   4131043.16   0.00011   722233.82
4131052.90   0.00011
         722210.79   4131062.65   0.00011   722187.77
4131072.39   0.00012

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15
, PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF DPM IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721461.30	4131276.70	0.00025	721484.22	4131266.71	0.00024
721507.14	4131256.72	0.00024	721530.06	4131246.74	0.00023
721552.97	4131236.75	0.00023	721575.89	4131226.76	0.00022
721598.81	4131216.78	0.00021	721621.73	4131206.79	0.00021
721644.65	4131196.80	0.00020	721667.57	4131186.82	0.00020
721690.49	4131176.83	0.00019	721713.41	4131166.84	0.00019
721736.32	4131156.86	0.00018	721759.24	4131146.87	0.00018
721782.16	4131136.88	0.00018	721805.08	4131126.90	0.00017
721828.00	4131116.91	0.00017	721850.92	4131106.92	0.00016
721873.84	4131096.94	0.00016	721896.76	4131086.95	0.00016
721903.62	4131127.59	0.00015	721880.70	4131137.58	0.00016
721857.78	4131147.57	0.00016	721834.87	4131157.55	0.00016
721811.95	4131167.54	0.00017	721789.03	4131177.53	0.00017
721766.11	4131187.51	0.00018	721743.19	4131197.50	0.00018
721720.27	4131207.48	0.00019	721697.35	4131217.47	0.00019
721674.43	4131227.46	0.00020	721651.52	4131237.44	0.00020
721628.60	4131247.43	0.00021	721605.68	4131257.42	0.00021
721582.76	4131267.40	0.00022	721559.84		

4131277.39   0.00022
         721536.92   4131287.38   0.00023   721514.00
4131297.36   0.00024
         721491.08   4131307.35   0.00024   721412.42
4131178.31   0.00025
         721435.37   4131168.40   0.00025   721458.32
4131158.48   0.00024
         721481.27   4131148.57   0.00024   721504.22
4131138.66   0.00023
         721527.17   4131128.74   0.00023   721550.13
4131118.83   0.00022
         721573.08   4131108.92   0.00022   721596.03
4131099.00   0.00021
         721618.98   4131089.09   0.00021   721641.93
4131079.18   0.00020
         721664.88   4131069.26   0.00020   721687.83
4131059.35   0.00019
         721710.78   4131049.44   0.00019   721733.73
4131039.52   0.00019
         721756.68   4131029.61   0.00018   721779.63
4131019.70   0.00018
         721802.58   4131009.78   0.00017   721825.53
4130999.87   0.00017
         721848.48   4130989.95   0.00017   721871.43
4130980.04   0.00016
         721894.38   4130970.13   0.00016   721917.33
4130960.21   0.00016
         721940.28   4130950.30   0.00015   721963.23
4130940.39   0.00015
         721986.18   4130930.47   0.00015   722009.13
4130920.56   0.00014
         722032.08   4130910.65   0.00014   722055.03
4130900.73   0.00014
         722077.99   4130890.82   0.00014   722100.94
4130880.91   0.00013
         722123.89   4130870.99   0.00013   722146.84
4130861.08   0.00013
         722169.79   4130851.17   0.00013   722192.74
4130841.25   0.00012
         722215.69   4130831.34   0.00012   722238.64
4130821.43   0.00012
         722261.59   4130811.51   0.00012   722284.54
4130801.60   0.00012
         722307.49   4130791.68   0.00011   722330.44
4130781.77   0.00011

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SOLAR ***
INCLUDING SOURCE(S): PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 ,
PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722374.04	4130839.19	0.00011	722351.09	4130849.10	0.00011
722328.14	4130859.02	0.00011	722305.19	4130868.93	0.00011
722282.24	4130878.84	0.00011	722259.29	4130888.76	0.00012
722236.34	4130898.67	0.00012	722213.38	4130908.58	0.00012
722190.43	4130918.50	0.00012	722167.48	4130928.41	0.00012
722144.53	4130938.33	0.00013	722121.58	4130948.24	0.00013
722098.63	4130958.15	0.00013	722075.68	4130968.07	0.00013
722052.73	4130977.98	0.00014	722029.78	4130987.89	0.00014
722006.83	4130997.81	0.00014	721983.88	4131007.72	0.00015
721960.93	4131017.63	0.00015	721937.98	4131027.55	0.00015
721915.03	4131037.46	0.00015	721892.08	4131047.37	0.00016
721869.13	4131057.29	0.00016	721846.18	4131067.20	0.00017
721823.23	4131077.11	0.00017	721800.28	4131087.03	0.00017
721777.33	4131096.94	0.00018	721754.38	4131106.85	0.00018
721731.43	4131116.77	0.00019	721708.48	4131126.68	0.00019
721685.52	4131136.60	0.00019	721662.57		

4131146.51   0.00020
         721639.62   4131156.42   0.00020   721616.67
4131166.34   0.00021
         721593.72   4131176.25   0.00021   721570.77
4131186.16   0.00022
         721547.82   4131196.08   0.00023   721524.87
4131205.99   0.00023
         721501.92   4131215.90   0.00024   721478.97
4131225.82   0.00024
         721456.02   4131235.73   0.00025   721024.56
4133243.02   0.00013
         720598.35   4133478.99   0.00013

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                  *** NETWORK ID: UCART1   ; NETWORK TYPE:
GRIDCART ***

                                      ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

    Y-COORD | X-COORD (METERS)
    (METERS) | 721117.14   721142.14   721167.14   721192.14   721217.14
721242.14   721267.14   721292.14   721317.14
 -
- -

  4132640.52 | 0.00241   0.00233   0.00228   0.00223   0.00220
  0.00217   0.00214   0.00212   0.00210
  4132615.52 | 0.00256   0.00244   0.00234   0.00227   0.00220
  0.00215   0.00211   0.00208   0.00204
  4132590.52 | 0.00279   0.00259   0.00244   0.00233   0.00224
  0.00216   0.00210   0.00205   0.00201
  4132565.52 | 0.00309   0.00279   0.00258   0.00242   0.00229
  0.00219   0.00211   0.00205   0.00199

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 4132540.52 |       0.00351      0.00306      0.00275      0.00254      0.00237
 0.00224      0.00214      0.00206      0.00199
 4132515.52 |       0.00404      0.00339      0.00298      0.00269      0.00247
 0.00231      0.00219      0.00209      0.00201
 4132490.52 |       0.00475      0.00383      0.00326      0.00288      0.00262
 0.00241      0.00226      0.00214      0.00204
 4132465.52 |       0.00559      0.00438      0.00364      0.00315      0.00280
 0.00255      0.00236      0.00221      0.00209
 4132440.52 |       0.00657      0.00507      0.00412      0.00349      0.00305
 0.00273      0.00249      0.00230      0.00215
 4132415.52 |       0.00784      0.00597      0.00475      0.00393      0.00336
 0.00295      0.00264      0.00241      0.00223
 4132390.52 |       0.00973      0.00714      0.00551      0.00445      0.00372
 0.00320      0.00283      0.00255      0.00233
 4132365.52 |       0.01257      0.00863      0.00642      0.00504      0.00413
 0.00350      0.00304      0.00270      0.00245
 4132340.52 |       0.01638      0.01052      0.00748      0.00572      0.00459
 0.00382      0.00328      0.00288      0.00258
 4132315.52 |       0.02019      0.01265      0.00871      0.00648      0.00510
 0.00418      0.00354      0.00307      0.00272
 4132290.52 |       0.02389      0.01483      0.01004      0.00732      0.00566
 0.00457      0.00382      0.00328      0.00288
 4132265.52 |       0.02644      0.01679      0.01137      0.00821      0.00627
 0.00501      0.00414      0.00352      0.00307
 4132240.52 |       0.02757      0.01817      0.01252      0.00907      0.00690
 0.00547      0.00448      0.00378      0.00327
 4132215.52 |       0.02801      0.01898      0.01339      0.00983      0.00750
 0.00593      0.00484      0.00406      0.00349
 4132190.52 |       0.02803      0.01939      0.01398      0.01044      0.00804
 0.00638      0.00521      0.00436      0.00372
 4132165.52 |       0.02775      0.01956      0.01437      0.01091      0.00851
 0.00680      0.00557      0.00465      0.00397
 4132140.52 |       0.02761      0.01965      0.01463      0.01127      0.00890
 0.00718      0.00591      0.00495      0.00423
 4132115.52 |       0.02806      0.01987      0.01489      0.01159      0.00925
 0.00753      0.00624      0.00525      0.00449
 4132090.52 |       0.02929      0.02044      0.01526      0.01192      0.00959
 0.00786      0.00656      0.00554      0.00475
 4132065.52 |       0.03173      0.02155      0.01588      0.01236      0.00996
 0.00821      0.00688      0.00585      0.00503
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                    PAGE 183
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
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INCLUDING SOURCE(S): PAREA1 , AREA1
, PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9
, PAREA10 , PAREA11 , PAREA13 ,
PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17
, PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART1 ; NETWORK TYPE:
GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3
**

Y-COORD (METERS)	X-COORD (METERS)									
	721342.14	721367.14	721392.14	721417.14	721442.14	721467.14	721492.14	721517.14	721542.14	
4132640.52	0.00208	0.00207	0.00206	0.00205	0.00206	0.00206	0.00208	0.00210	0.00213	
4132615.52	0.00202	0.00200	0.00198	0.00197	0.00196	0.00196	0.00196	0.00197	0.00198	
4132590.52	0.00198	0.00195	0.00192	0.00190	0.00189	0.00187	0.00187	0.00187	0.00187	
4132565.52	0.00195	0.00191	0.00188	0.00185	0.00183	0.00181	0.00179	0.00178	0.00178	
4132540.52	0.00194	0.00189	0.00185	0.00181	0.00179	0.00176	0.00174	0.00172	0.00171	
4132515.52	0.00194	0.00188	0.00183	0.00179	0.00175	0.00172	0.00169	0.00167	0.00165	
4132490.52	0.00196	0.00189	0.00183	0.00178	0.00173	0.00170	0.00166	0.00163	0.00161	
4132465.52	0.00199	0.00190	0.00183	0.00177	0.00172	0.00168	0.00164	0.00160	0.00157	
4132440.52	0.00203	0.00193	0.00185	0.00178	0.00172	0.00167	0.00162	0.00158	0.00155	
4132415.52	0.00209	0.00197	0.00188	0.00180	0.00173	0.00167	0.00161	0.00157	0.00153	
4132390.52	0.00216	0.00203	0.00191	0.00182	0.00174	0.00167	0.00161	0.00156	0.00152	
4132365.52	0.00225	0.00209	0.00196	0.00185	0.00176	0.00169	0.00162	0.00156	0.00152	
4132340.52	0.00234	0.00216	0.00201	0.00189	0.00179	0.00170	0.00163	0.00157	0.00152	
4132315.52	0.00245	0.00225	0.00208	0.00194	0.00183	0.00173	0.00165	0.00158	0.00152	
4132290.52	0.00258	0.00234	0.00215	0.00200	0.00187	0.00177	0.00168	0.00160	0.00154	
4132265.52	0.00272	0.00245	0.00224	0.00207	0.00193					

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  0.00181      0.00171      0.00163      0.00156
  4132240.52 |       0.00288      0.00258      0.00234      0.00215      0.00200
  0.00187      0.00176      0.00166      0.00159
  4132215.52 |       0.00305      0.00272      0.00246      0.00224      0.00207
  0.00193      0.00181      0.00171      0.00162
  4132190.52 |       0.00324      0.00287      0.00258      0.00235      0.00216
  0.00200      0.00187      0.00176      0.00166
  4132165.52 |       0.00345      0.00304      0.00272      0.00247      0.00226
  0.00208      0.00194      0.00182      0.00171
  4132140.52 |       0.00366      0.00322      0.00288      0.00260      0.00237
  0.00218      0.00202      0.00188      0.00177
  4132115.52 |       0.00389      0.00342      0.00304      0.00274      0.00249
  0.00229      0.00211      0.00196      0.00184
  4132090.52 |       0.00413      0.00363      0.00322      0.00290      0.00263
  0.00240      0.00222      0.00205      0.00192
  4132065.52 |       0.00437      0.00385      0.00342      0.00307      0.00278
  0.00253      0.00233      0.00216      0.00201
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 184
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     721567.14    721592.14    721617.14    721642.14    721667.14
721692.14    721717.14    721742.14    721767.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |       0.00217      0.00222      0.00227      0.00234      0.00244
  0.00258      0.00275      0.00296      0.00316
  4132615.52 |       0.00200      0.00203      0.00207      0.00211      0.00218
  0.00226      0.00237      0.00249      0.00262
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 4132590.52 |       0.00188      0.00189      0.00191      0.00194      0.00198
 0.00203      0.00210      0.00218      0.00226
 4132565.52 |       0.00178      0.00178      0.00179      0.00180      0.00183
 0.00186      0.00190      0.00195      0.00200
 4132540.52 |       0.00170      0.00169      0.00169      0.00170      0.00171
 0.00173      0.00175      0.00178      0.00181
 4132515.52 |       0.00164      0.00162      0.00162      0.00162      0.00162
 0.00162      0.00164      0.00165      0.00167
 4132490.52 |       0.00159      0.00157      0.00156      0.00155      0.00154
 0.00154      0.00155      0.00155      0.00156
 4132465.52 |       0.00155      0.00153      0.00151      0.00150      0.00149
 0.00148      0.00148      0.00147      0.00147
 4132440.52 |       0.00152      0.00149      0.00147      0.00145      0.00144
 0.00143      0.00142      0.00141      0.00141
 4132415.52 |       0.00150      0.00147      0.00144      0.00142      0.00140
 0.00139      0.00137      0.00136      0.00135
 4132390.52 |       0.00148      0.00145      0.00142      0.00140      0.00137
 0.00135      0.00134      0.00132      0.00131
 4132365.52 |       0.00147      0.00144      0.00140      0.00138      0.00135
 0.00133      0.00131      0.00129      0.00128
 4132340.52 |       0.00147      0.00143      0.00139      0.00136      0.00134
 0.00131      0.00129      0.00127      0.00125
 4132315.52 |       0.00147      0.00143      0.00139      0.00136      0.00133
 0.00130      0.00127      0.00125      0.00123
 4132290.52 |       0.00148      0.00143      0.00139      0.00135      0.00132
 0.00129      0.00126      0.00124      0.00122
 4132265.52 |       0.00150      0.00144      0.00140      0.00136      0.00132
 0.00129      0.00126      0.00123      0.00121
 4132240.52 |       0.00152      0.00146      0.00141      0.00137      0.00133
 0.00129      0.00126      0.00123      0.00120
 4132215.52 |       0.00155      0.00148      0.00143      0.00138      0.00134
 0.00130      0.00127      0.00123      0.00121
 4132190.52 |       0.00158      0.00151      0.00145      0.00140      0.00136
 0.00131      0.00128      0.00124      0.00121
 4132165.52 |       0.00162      0.00155      0.00148      0.00143      0.00138
 0.00133      0.00129      0.00126      0.00122
 4132140.52 |       0.00168      0.00159      0.00152      0.00146      0.00141
 0.00136      0.00131      0.00127      0.00124
 4132115.52 |       0.00173      0.00164      0.00157      0.00150      0.00144
 0.00139      0.00134      0.00130      0.00126
 4132090.52 |       0.00180      0.00171      0.00162      0.00155      0.00148
 0.00143      0.00138      0.00133      0.00129
 4132065.52 |       0.00188      0.00177      0.00168      0.00160      0.00153
 0.00147      0.00142      0.00136      0.00132
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
*** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                             INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                  *** NETWORK ID: UCART1   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                   **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721792.14    721817.14    721842.14
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

  4132640.52 |       0.00332      0.00331      0.00302
  4132615.52 |       0.00273      0.00275      0.00262
  4132590.52 |       0.00233      0.00235      0.00229
  4132565.52 |       0.00204      0.00206      0.00203
  4132540.52 |       0.00184      0.00185      0.00183
  4132515.52 |       0.00168      0.00169      0.00168
  4132490.52 |       0.00157      0.00157      0.00156
  4132465.52 |       0.00147      0.00147      0.00146
  4132440.52 |       0.00140      0.00140      0.00138
  4132415.52 |       0.00134      0.00133      0.00132
  4132390.52 |       0.00130      0.00129      0.00127
  4132365.52 |       0.00126      0.00125      0.00123
  4132340.52 |       0.00123      0.00122      0.00120
  4132315.52 |       0.00121      0.00119      0.00117
  4132290.52 |       0.00119      0.00117      0.00115
  4132265.52 |       0.00118      0.00116      0.00114
  4132240.52 |       0.00118      0.00115      0.00113
  4132215.52 |       0.00118      0.00115      0.00113
  4132190.52 |       0.00118      0.00115      0.00113
  4132165.52 |       0.00119      0.00116      0.00113
  4132140.52 |       0.00120      0.00117      0.00114
  4132115.52 |       0.00122      0.00119      0.00116
  4132090.52 |       0.00125      0.00121      0.00118
  4132065.52 |       0.00127      0.00124      0.00120
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)								
	721122.34	721147.34	721172.34	721197.34	721222.34	721247.34	721272.34	721297.34	721322.34
4133148.24	0.00511	0.00424	0.00358	0.00309	0.00270	0.00239	0.00214	0.00193	0.00176
4133123.24	0.00717	0.00568	0.00462	0.00386	0.00329	0.00286	0.00251	0.00224	0.00202
4133098.24	0.01108	0.00821	0.00635	0.00508	0.00419	0.00353	0.00304	0.00267	0.00237
4133073.24	0.02320	0.01349	0.00958	0.00722	0.00567	0.00460	0.00384	0.00328	0.00286
4133048.24	0.02433	0.02879	0.01836	0.01164	0.00846	0.00647	0.00514	0.00424	0.00359
4133023.24	0.01435	0.01687	0.02351	0.02626	0.01542	0.01017	0.00748	0.00586	0.00478
4132998.24	0.01041	0.01106	0.01267	0.01547	0.02140	0.02227	0.01277	0.00901	0.00693
4132973.24	0.00786	0.00821	0.00885	0.00998	0.01179	0.01549	0.02402	0.02100	0.01195
4132948.24	0.00618	0.00646	0.00677	0.00729	0.00812	0.00954	0.01192	0.01546	0.02242
4132923.24	0.00504	0.00527	0.00547	0.00574	0.00615	0.00678	0.00779	0.00927	0.01130
4132898.24	0.00424	0.00442	0.00458	0.00474	0.00496	0.00528	0.00577	0.00648	0.00743
4132873.24	0.00365	0.00381	0.00394	0.00406	0.00419	0.00437	0.00462	0.00499	0.00548
4132848.24	0.00322	0.00335	0.00346	0.00355	0.00364				

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 ,
PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART2 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)					
	721347.34	721372.34	721397.34	721422.34	721447.34	721472.34
721497.34	721522.34	721547.34				
4133148.24	0.00161	0.00148	0.00137	0.00128	0.00119	0.00111
0.00104	0.00098	0.00092				
4133123.24	0.00183	0.00167	0.00154	0.00142	0.00132	0.00123
0.00114	0.00107	0.00100				

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 4133098.24 |       0.00212      0.00192      0.00175      0.00160      0.00148
 0.00137      0.00127      0.00118      0.00110
 4133073.24 |       0.00252      0.00225      0.00203      0.00184      0.00168
 0.00155      0.00143      0.00132      0.00122
 4133048.24 |       0.00310      0.00272      0.00242      0.00217      0.00196
 0.00179      0.00163      0.00150      0.00138
 4133023.24 |       0.00401      0.00343      0.00298      0.00263      0.00235
 0.00211      0.00191      0.00174      0.00159
 4132998.24 |       0.00556      0.00459      0.00388      0.00334      0.00292
 0.00258      0.00231      0.00208      0.00188
 4132973.24 |       0.00875      0.00680      0.00549      0.00454      0.00384
 0.00331      0.00290      0.00257      0.00229
 4132948.24 |       0.02015      0.01193      0.00878      0.00685      0.00551
 0.00455      0.00386      0.00333      0.00292
 4132923.24 |       0.01455      0.02155      0.02089      0.01238      0.00895
 0.00692      0.00557      0.00463      0.00394
 4132898.24 |       0.00876      0.01077      0.01398      0.02076      0.02150
 0.01298      0.00911      0.00709      0.00579
 4132873.24 |       0.00614      0.00706      0.00840      0.01041      0.01332
 0.01733      0.02100      0.01398      0.00974
 4132848.24 |       0.00473      0.00521      0.00587      0.00680      0.00808
 0.00968      0.01161      0.01429      0.01972
 4132823.24 |       0.00388      0.00415      0.00450      0.00499      0.00563
 0.00643      0.00738      0.00851      0.01008
 4132798.24 |       0.00333      0.00349      0.00369      0.00396      0.00431
 0.00475      0.00526      0.00585      0.00659
 4132773.24 |       0.00295      0.00304      0.00316      0.00332      0.00353
 0.00378      0.00408      0.00442      0.00482
 4132748.24 |       0.00267      0.00273      0.00280      0.00289      0.00302
 0.00317      0.00335      0.00356      0.00379
 4132723.24 |       0.00247      0.00250      0.00254      0.00259      0.00267
 0.00276      0.00288      0.00300      0.00315
 4132698.24 |       0.00231      0.00232      0.00234      0.00237      0.00242
 0.00247      0.00255      0.00263      0.00272
 4132673.24 |       0.00219      0.00219      0.00220      0.00221      0.00223
 0.00226      0.00231      0.00236      0.00242
 4132648.24 |       0.00210      0.00209      0.00209      0.00209      0.00209
 0.00211      0.00213      0.00216      0.00220
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***        10:17:53

                                    PAGE 188
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
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*** NETWORK ID: UCART2   ; NETWORK TYPE:
GRIDCART ***

** CONC OF DPM   IN MICROGRAMS/M**3
                **

Y-COORD (METERS)	X-COORD (METERS)		
	721572.34	721597.34	721622.34
4133148.24	0.00087	0.00082	0.00078
4133123.24	0.00094	0.00088	0.00083
4133098.24	0.00103	0.00096	0.00090
4133073.24	0.00114	0.00106	0.00099
4133048.24	0.00128	0.00118	0.00109
4133023.24	0.00146	0.00134	0.00123
4132998.24	0.00171	0.00155	0.00141
4132973.24	0.00206	0.00185	0.00167
4132948.24	0.00258	0.00229	0.00203
4132923.24	0.00340	0.00297	0.00259
4132898.24	0.00485	0.00412	0.00353
4132873.24	0.00769	0.00630	0.00524
4132848.24	0.01802	0.01148	0.00882
4132823.24	0.01258	0.01753	0.02087
4132798.24	0.00765	0.00922	0.01163
4132773.24	0.00533	0.00605	0.00711
4132748.24	0.00408	0.00446	0.00501
4132723.24	0.00333	0.00355	0.00386
4132698.24	0.00283	0.00297	0.00315
4132673.24	0.00249	0.00258	0.00269
4132648.24	0.00224	0.00230	0.00236

                          *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9

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 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                  *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     718867.38    718892.38    718917.38    718942.38    718967.38
718992.38    719017.38    719042.38    719067.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133416.48 |       0.00063      0.00065      0.00067      0.00070      0.00072
  0.00074      0.00077      0.00079      0.00081
  4133391.48 |       0.00063      0.00066      0.00068      0.00071      0.00074
  0.00076      0.00079      0.00081      0.00084
  4133366.48 |       0.00064      0.00067      0.00070      0.00072      0.00075
  0.00078      0.00081      0.00084      0.00087
  4133341.48 |       0.00064      0.00067      0.00070      0.00073      0.00077
  0.00080      0.00083      0.00086      0.00089
  4133316.48 |       0.00065      0.00068      0.00071      0.00075      0.00078
  0.00081      0.00085      0.00089      0.00092
  4133291.48 |       0.00065      0.00068      0.00072      0.00075      0.00079
  0.00083      0.00087      0.00091      0.00095
  4133266.48 |       0.00065      0.00068      0.00072      0.00076      0.00080
  0.00084      0.00089      0.00093      0.00098
  4133241.48 |       0.00064      0.00068      0.00072      0.00076      0.00081
  0.00085      0.00090      0.00096      0.00101
  4133216.48 |       0.00063      0.00067      0.00071      0.00076      0.00081
  0.00086      0.00092      0.00097      0.00103
  4133191.48 |       0.00062      0.00066      0.00071      0.00075      0.00081
  0.00086      0.00092      0.00099      0.00105
  4133166.48 |       0.00060      0.00065      0.00069      0.00074      0.00080
  0.00086      0.00092      0.00099      0.00107
  4133141.48 |       0.00058      0.00063      0.00067      0.00073      0.00079
  0.00085      0.00092      0.00099      0.00108
  4133116.48 |       0.00056      0.00060      0.00065      0.00071      0.00077
  0.00083      0.00090      0.00098      0.00107
  4133091.48 |       0.00054      0.00058      0.00063      0.00068      0.00074
  0.00081      0.00088      0.00097      0.00106
  4133066.48 |       0.00051      0.00055      0.00060      0.00065      0.00071
  0.00078      0.00085      0.00094      0.00104
  4133041.48 |       0.00048      0.00052      0.00057      0.00062      0.00067
  0.00074      0.00082      0.00090      0.00100
  4133016.48 |       0.00046      0.00049      0.00053      0.00058      0.00064
  0.00070      0.00077      0.00086      0.00096
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 4132991.48 |       0.00043      0.00046      0.00050      0.00055      0.00060
 0.00066      0.00073      0.00081      0.00090
 4132966.48 |       0.00040      0.00043      0.00047      0.00051      0.00056
 0.00061      0.00068      0.00075      0.00084
 4132941.48 |       0.00037      0.00040      0.00044      0.00047      0.00052
 0.00057      0.00063      0.00070      0.00078
 4132916.48 |       0.00035      0.00038      0.00041      0.00044      0.00048
 0.00052      0.00058      0.00064      0.00072
 4132891.48 |       0.00033      0.00035      0.00038      0.00041      0.00044
 0.00048      0.00053      0.00059      0.00065
 4132866.48 |       0.00031      0.00033      0.00035      0.00038      0.00041
 0.00044      0.00049      0.00054      0.00059
 4132841.48 |       0.00029      0.00030      0.00033      0.00035      0.00038
 0.00041      0.00044      0.00049      0.00054
 4132816.48 |       0.00027      0.00028      0.00030      0.00032      0.00035
 0.00038      0.00041      0.00045      0.00049
 4132791.48 |       0.00025      0.00027      0.00028      0.00030      0.00032
 0.00035      0.00038      0.00041      0.00045
 4132766.48 |       0.00024      0.00025      0.00027      0.00028      0.00030
 0.00032      0.00035      0.00037      0.00041
 4132741.48 |       0.00022      0.00024      0.00025      0.00026      0.00028
 0.00030      0.00032      0.00035      0.00037
 4132716.48 |       0.00021      0.00022      0.00024      0.00025      0.00026
 0.00028      0.00030      0.00032      0.00035
 4132691.48 |       0.00020      0.00021      0.00022      0.00024      0.00025
 0.00026      0.00028      0.00030      0.00032
*** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***        10:17:53

                                    PAGE 190
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                   *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                        ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                X-COORD (METERS)
```

(METERS)	719092.38	719117.38	719142.38	719167.38	719192.38	719217.38	719242.38	719267.38	719292.38
4133416.48	0.00083	0.00085	0.00086	0.00088	0.00089	0.00090	0.00091	0.00092	0.00093
4133391.48	0.00086	0.00088	0.00090	0.00092	0.00094	0.00095	0.00096	0.00097	0.00098
4133366.48	0.00089	0.00092	0.00094	0.00097	0.00099	0.00100	0.00102	0.00103	0.00104
4133341.48	0.00093	0.00096	0.00099	0.00101	0.00104	0.00106	0.00108	0.00109	0.00110
4133316.48	0.00096	0.00100	0.00103	0.00106	0.00109	0.00112	0.00114	0.00116	0.00117
4133291.48	0.00099	0.00104	0.00108	0.00112	0.00115	0.00118	0.00121	0.00124	0.00126
4133266.48	0.00103	0.00108	0.00112	0.00117	0.00121	0.00125	0.00129	0.00132	0.00135
4133241.48	0.00106	0.00112	0.00117	0.00123	0.00128	0.00133	0.00138	0.00141	0.00145
4133216.48	0.00110	0.00116	0.00122	0.00129	0.00135	0.00141	0.00147	0.00152	0.00156
4133191.48	0.00112	0.00120	0.00127	0.00135	0.00142	0.00150	0.00157	0.00163	0.00169
4133166.48	0.00115	0.00123	0.00132	0.00140	0.00150	0.00159	0.00167	0.00176	0.00183
4133141.48	0.00116	0.00126	0.00135	0.00146	0.00157	0.00167	0.00178	0.00189	0.00199
4133116.48	0.00117	0.00127	0.00138	0.00150	0.00163	0.00176	0.00189	0.00203	0.00216
4133091.48	0.00116	0.00128	0.00140	0.00154	0.00169	0.00184	0.00200	0.00217	0.00233
4133066.48	0.00115	0.00127	0.00141	0.00156	0.00172	0.00191	0.00210	0.00231	0.00252
4133041.48	0.00111	0.00124	0.00139	0.00156	0.00174	0.00195	0.00218	0.00243	0.00269
4133016.48	0.00107	0.00120	0.00135	0.00153	0.00173	0.00197	0.00223	0.00253	0.00285
4132991.48	0.00101	0.00114	0.00130	0.00148	0.00169	0.00195	0.00224	0.00258	0.00297
4132966.48	0.00095	0.00107	0.00123	0.00141	0.00163	0.00189	0.00220	0.00258	0.00302
4132941.48	0.00088	0.00100	0.00114	0.00132	0.00153	0.00179	0.00211	0.00251	0.00300
4132916.48	0.00081	0.00091	0.00105	0.00121	0.00141	0.00167	0.00198	0.00238	0.00288
4132891.48	0.00073	0.00083	0.00095	0.00110	0.00128	0.00152	0.00181	0.00220	0.00269
4132866.48	0.00066	0.00075	0.00086	0.00099	0.00115

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  0.00136      0.00163      0.00198      0.00244
  4132841.48 |       0.00060      0.00067      0.00077      0.00088      0.00102
  0.00120      0.00143      0.00174      0.00215
  4132816.48 |       0.00054      0.00061      0.00068      0.00078      0.00090
  0.00105      0.00125      0.00151      0.00186
  4132791.48 |       0.00049      0.00054      0.00061      0.00069      0.00079
  0.00092      0.00108      0.00129      0.00157
  4132766.48 |       0.00044      0.00049      0.00054      0.00061      0.00069
  0.00080      0.00093      0.00110      0.00133
  4132741.48 |       0.00041      0.00045      0.00049      0.00055      0.00061
  0.00070      0.00081      0.00095      0.00113
  4132716.48 |       0.00038      0.00041      0.00045      0.00049      0.00055
  0.00062      0.00071      0.00083      0.00097
  4132691.48 |       0.00035      0.00038      0.00041      0.00045      0.00050
  0.00056      0.00064      0.00073      0.00085
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 191
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                     *** NETWORK ID: UCART3   ;  NETWORK TYPE:
GRIDCART ***

                                          ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     719317.38    719342.38    719367.38    719392.38    719417.38
719442.38    719467.38
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4133416.48 |       0.00093      0.00094      0.00094      0.00094      0.00094
  0.00094      0.00094
  4133391.48 |       0.00099      0.00099      0.00099      0.00100      0.00100
  0.00100      0.00099
  4133366.48 |       0.00105      0.00105      0.00106      0.00106      0.00106
  0.00106      0.00106
```

4133341.48 | 0.00111 0.00112 0.00113 0.00113 0.00113
0.00113 0.00113
4133316.48 | 0.00119 0.00120 0.00120 0.00121 0.00121
0.00121 0.00121
4133291.48 | 0.00127 0.00128 0.00129 0.00130 0.00131
0.00131 0.00131
4133266.48 | 0.00137 0.00138 0.00139 0.00140 0.00141
0.00141 0.00141
4133241.48 | 0.00147 0.00150 0.00151 0.00152 0.00153
0.00154 0.00154
4133216.48 | 0.00160 0.00163 0.00165 0.00166 0.00167
0.00168 0.00168
4133191.48 | 0.00174 0.00178 0.00180 0.00183 0.00184
0.00185 0.00185
4133166.48 | 0.00190 0.00195 0.00199 0.00202 0.00204
0.00205 0.00205
4133141.48 | 0.00208 0.00215 0.00221 0.00225 0.00228
0.00229 0.00230
4133116.48 | 0.00227 0.00238 0.00246 0.00253 0.00257
0.00259 0.00260
4133091.48 | 0.00249 0.00264 0.00276 0.00285 0.00292
0.00296 0.00298
4133066.48 | 0.00273 0.00292 0.00310 0.00324 0.00335
0.00342 0.00345
4133041.48 | 0.00297 0.00324 0.00349 0.00371 0.00388
0.00399 0.00406
4133016.48 | 0.00320 0.00356 0.00392 0.00425 0.00453
0.00473 0.00485
4132991.48 | 0.00340 0.00388 0.00438 0.00487 0.00531
0.00567 0.00589
4132966.48 | 0.00354 0.00415 0.00481 0.00553 0.00623
0.00686 0.00730
4132941.48 | 0.00359 0.00431 0.00515 0.00613 0.00720
0.00825 0.00916
4132916.48 | 0.00353 0.00433 0.00535 0.00662 0.00814
0.00984 0.01155
4132891.48 | 0.00334 0.00419 0.00532 0.00682 0.00881
0.01134 0.01432
4132866.48 | 0.00306 0.00390 0.00504 0.00666 0.00897
0.01225 0.01688
4132841.48 | 0.00271 0.00348 0.00456 0.00615 0.00852
0.01215 0.01795
4132816.48 | 0.00233 0.00300 0.00397 0.00539 0.00762
0.01114 0.01706
4132791.48 | 0.00197 0.00252 0.00332 0.00451 0.00644
0.00961 0.01504
4132766.48 | 0.00164 0.00207 0.00270 0.00366 0.00522
0.00783 0.01250
4132741.48 | 0.00137 0.00171 0.00219 0.00290 0.00407
0.00605 0.00970

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART4 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

| Y-COORD (METERS) | X-COORD (METERS) | | |

```
  0.00092      0.00091      0.00090      0.00090
  4131661.98 |       0.00091      0.00091      0.00091      0.00090      0.00090
  0.00089      0.00089      0.00088      0.00087
  4131636.04 |       0.00087      0.00087      0.00087      0.00087      0.00087
  0.00087      0.00086      0.00086      0.00085
  4131610.10 |       0.00083      0.00084      0.00084      0.00084      0.00084
  0.00084      0.00084      0.00083      0.00083
  4131584.16 |       0.00080      0.00080      0.00081      0.00081      0.00081
  0.00081      0.00081      0.00081      0.00081
  4131558.22 |       0.00076      0.00077      0.00078      0.00078      0.00078
  0.00079      0.00079      0.00079      0.00078
  4131532.28 |       0.00073      0.00074      0.00075      0.00075      0.00076
  0.00076      0.00076      0.00076      0.00076
  4131506.34 |       0.00070      0.00071      0.00072      0.00072      0.00073
  0.00073      0.00074      0.00074      0.00074
  4131480.40 |       0.00067      0.00068      0.00069      0.00070      0.00070
  0.00071      0.00071      0.00071      0.00072
  4131454.46 |       0.00064      0.00065      0.00066      0.00067      0.00068
  0.00068      0.00069      0.00069      0.00070
  4131428.52 |       0.00061      0.00062      0.00063      0.00064      0.00065
  0.00066      0.00066      0.00067      0.00067
  4131402.58 |       0.00058      0.00059      0.00061      0.00062      0.00063
  0.00063      0.00064      0.00065      0.00065
  4131376.64 |       0.00056      0.00057      0.00058      0.00059      0.00060
  0.00061      0.00062      0.00063      0.00063
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART4   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     720539.85    720564.85    720589.85    720614.85    720639.85
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720664.85    720689.85    720714.85    720739.85
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** NETWORK ID: UCART5 ; NETWORK TYPE: GRIDCART ***

** CONC OF DPM IN MICROGRAMS/M**3 **

Y-COORD (METERS)	X-COORD (METERS)									
	720761.78	720786.78	720811.78	720836.78	720861.78	720886.78	720911.78	720936.78	720961.78	
4131567.21	0.00082	0.00083	0.00084	0.00086	0.00088	0.00090	0.00092	0.00095	0.00098	
4131542.21	0.00080	0.00081	0.00082	0.00083	0.00085	0.00087	0.00089	0.00091	0.00094	
4131517.21	0.00078	0.00078	0.00079	0.00081	0.00082	0.00084	0.00086	0.00088	0.00090	
4131492.21	0.00075	0.00076	0.00077	0.00078	0.00080	0.00081	0.00083	0.00084	0.00087	
4131467.21	0.00074	0.00074	0.00075	0.00076	0.00077	0.00078	0.00080	0.00082	0.00083	
4131442.21	0.00072	0.00072	0.00073	0.00074	0.00075	0.00076	0.00077	0.00079	0.00081	
4131417.21	0.00070	0.00070	0.00071	0.00072	0.00073	0.00074	0.00075	0.00076	0.00078	
4131392.21	0.00068	0.00069	0.00069	0.00070	0.00071	0.00072	0.00073	0.00074	0.00075	
4131367.21	0.00066	0.00067	0.00068	0.00068	0.00069	0.00070	0.00071	0.00072	0.00073	
4131342.21	0.00065	0.00065	0.00066	0.00066	0.00067	0.00068	0.00069	0.00070	0.00071	
4131317.21	0.00063	0.00064	0.00064	0.00065	0.00065	0.00066	0.00067	0.00068	0.00069	
4131292.21	0.00062	0.00062	0.00063	0.00063	0.00064	0.00064	0.00065	0.00066	0.00067	
4131267.21	0.00060	0.00061	0.00061	0.00062	0.00062					

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  0.00063      0.00064      0.00064      0.00065
  4131242.21 |       0.00059      0.00059      0.00060      0.00060      0.00061
  0.00061      0.00062      0.00063      0.00063
  4131217.21 |       0.00057      0.00058      0.00058      0.00059      0.00059
  0.00060      0.00060      0.00061      0.00062
  4131192.21 |       0.00056      0.00056      0.00057      0.00057      0.00058
  0.00058      0.00059      0.00060      0.00060
  4131167.21 |       0.00054      0.00055      0.00055      0.00056      0.00056
  0.00057      0.00057      0.00058      0.00059
  4131142.21 |       0.00053      0.00053      0.00054      0.00054      0.00055
  0.00055      0.00056      0.00057      0.00057
  4131117.21 |       0.00052      0.00052      0.00053      0.00053      0.00054
  0.00054      0.00055      0.00055      0.00056
  4131092.21 |       0.00050      0.00051      0.00051      0.00052      0.00052
  0.00053      0.00053      0.00054      0.00055
  4131067.21 |       0.00049      0.00050      0.00050      0.00051      0.00051
  0.00052      0.00052      0.00053      0.00053
  4131042.21 |       0.00048      0.00048      0.00049      0.00049      0.00050
  0.00050      0.00051      0.00051      0.00052
  4131017.21 |       0.00047      0.00047      0.00048      0.00048      0.00049
  0.00049      0.00050      0.00050      0.00051
  4130992.21 |       0.00045      0.00046      0.00046      0.00047      0.00048
  0.00048      0.00049      0.00049      0.00050
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                            ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***        10:17:53

                                      PAGE 195
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                      INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                      *** NETWORK ID: UCART5   ;  NETWORK TYPE:
GRIDCART ***

                                           ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                                  X-COORD (METERS)
    (METERS) |     720986.78    721011.78    721036.78
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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  4131567.21 |       0.00101      0.00105      0.00109
  4131542.21 |       0.00097      0.00100      0.00104
  4131517.21 |       0.00093      0.00096      0.00099
  4131492.21 |       0.00089      0.00092      0.00095
  4131467.21 |       0.00086      0.00088      0.00091
  4131442.21 |       0.00082      0.00085      0.00087
  4131417.21 |       0.00080      0.00082      0.00084
  4131392.21 |       0.00077      0.00079      0.00081
  4131367.21 |       0.00075      0.00076      0.00078
  4131342.21 |       0.00072      0.00074      0.00075
  4131317.21 |       0.00070      0.00071      0.00073
  4131292.21 |       0.00068      0.00069      0.00071
  4131267.21 |       0.00066      0.00067      0.00069
  4131242.21 |       0.00064      0.00065      0.00067
  4131217.21 |       0.00063      0.00064      0.00065
  4131192.21 |       0.00061      0.00062      0.00063
  4131167.21 |       0.00059      0.00060      0.00061
  4131142.21 |       0.00058      0.00059      0.00060
  4131117.21 |       0.00057      0.00057      0.00058
  4131092.21 |       0.00055      0.00056      0.00057
  4131067.21 |       0.00054      0.00055      0.00055
  4131042.21 |       0.00053      0.00053      0.00054
  4131017.21 |       0.00051      0.00052      0.00053
  4130992.21 |       0.00050      0.00051      0.00051
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 196
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                    *** NETWORK ID: UCART6   ;  NETWORK TYPE:
GRIDCART ***

                                         ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

    Y-COORD  |                                                 X-COORD (METERS)
    (METERS) |     721041.49    721066.49    721091.49    721116.49    721141.49
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721166.49    721191.49    721216.49    721241.49
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131364.06 |       0.00078      0.00080      0.00083      0.00085      0.00089
  0.00092      0.00097      0.00101      0.00107
  4131344.06 |       0.00076      0.00078      0.00080      0.00083      0.00086
  0.00089      0.00093      0.00097      0.00102
  4131324.06 |       0.00074      0.00076      0.00078      0.00080      0.00083
  0.00086      0.00090      0.00093      0.00098
  4131304.06 |       0.00072      0.00074      0.00076      0.00078      0.00080
  0.00083      0.00086      0.00090      0.00094
  4131284.06 |       0.00070      0.00072      0.00074      0.00076      0.00078
  0.00081      0.00083      0.00087      0.00091
  4131264.06 |       0.00069      0.00070      0.00072      0.00074      0.00076
  0.00078      0.00081      0.00084      0.00087
  4131244.06 |       0.00067      0.00068      0.00070      0.00072      0.00074
  0.00076      0.00078      0.00081      0.00084
  4131224.06 |       0.00065      0.00067      0.00068      0.00070      0.00072
  0.00074      0.00076      0.00079      0.00081
  4131204.06 |       0.00064      0.00065      0.00066      0.00068      0.00070
  0.00072      0.00074      0.00076      0.00079
  4131184.06 |       0.00063      0.00064      0.00065      0.00066      0.00068
  0.00070      0.00072      0.00074      0.00076
  4131164.06 |       0.00061      0.00062      0.00063      0.00065      0.00066
  0.00068      0.00070      0.00072      0.00074
  4131144.06 |       0.00060      0.00061      0.00062      0.00063      0.00065
  0.00066      0.00068      0.00070      0.00072
  4131124.06 |       0.00059      0.00060      0.00061      0.00062      0.00063
  0.00065      0.00066      0.00068      0.00070
  4131104.06 |       0.00058      0.00058      0.00059      0.00060      0.00062
  0.00063      0.00065      0.00066      0.00068
  4131084.06 |       0.00056      0.00057      0.00058      0.00059      0.00060
  0.00062      0.00063      0.00065      0.00066
  4131064.06 |       0.00055      0.00056      0.00057      0.00058      0.00059
  0.00060      0.00062      0.00063      0.00065
↟ *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***        10:17:53

                                     PAGE 197
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
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                PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                  *** NETWORK ID: UCART6   ;  NETWORK TYPE:
GRIDCART ***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

    Y-COORD  |                                              X-COORD (METERS)
    (METERS) |     721266.49    721291.49    721316.49    721341.49    721366.49
721391.49    721416.49
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -

  4131364.06 |       0.00113      0.00120      0.00127      0.00135      0.00143
  0.00151      0.00159
  4131344.06 |       0.00108      0.00114      0.00120      0.00127      0.00135
  0.00142      0.00150
  4131324.06 |       0.00103      0.00108      0.00114      0.00121      0.00127
  0.00134      0.00141
  4131304.06 |       0.00099      0.00104      0.00109      0.00115      0.00121
  0.00127      0.00134
  4131284.06 |       0.00095      0.00099      0.00104      0.00109      0.00115
  0.00120      0.00126
  4131264.06 |       0.00091      0.00095      0.00100      0.00104      0.00109
  0.00114      0.00120
  4131244.06 |       0.00088      0.00091      0.00095      0.00100      0.00104
  0.00109      0.00114
  4131224.06 |       0.00085      0.00088      0.00092      0.00096      0.00100
  0.00104      0.00109
  4131204.06 |       0.00082      0.00085      0.00088      0.00092      0.00096
  0.00100      0.00104
  4131184.06 |       0.00079      0.00082      0.00085      0.00088      0.00092
  0.00096      0.00100
  4131164.06 |       0.00077      0.00079      0.00082      0.00085      0.00088
  0.00092      0.00096
  4131144.06 |       0.00074      0.00077      0.00079      0.00082      0.00085
  0.00088      0.00092
  4131124.06 |       0.00072      0.00074      0.00077      0.00079      0.00082
  0.00085      0.00088
  4131104.06 |       0.00070      0.00072      0.00074      0.00077      0.00079
  0.00082      0.00085
  4131084.06 |       0.00068      0.00070      0.00072      0.00074      0.00077
  0.00079      0.00082
  4131064.06 |       0.00066      0.00068      0.00070      0.00072      0.00075
  0.00077      0.00079
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721792.22	4132066.34	0.00127	721583.83	4131986.08	0.00215
721606.81	4131976.23	0.00208	721629.78	4131966.37	0.00201
721652.76	4131956.52	0.00195	721675.73	4131946.66	0.00190
721698.71	4131936.81	0.00185	721721.69	4131926.95	0.00181
721744.66	4131917.10	0.00177	721767.64	4131907.24	0.00174
721790.61	4131897.38	0.00171	721813.59	4131887.53	0.00168
721836.56	4131877.67	0.00165	721859.54	4131867.82	0.00163
721882.51	4131857.96	0.00161	721905.49	4131848.11	0.00159
721928.46	4131838.25	0.00157	721951.44	4131828.40	0.00155
721974.42	4131818.54	0.00154	721997.39	4131808.69	0.00152
722020.37	4131798.83	0.00151	722043.34	4131788.98	0.00149
722066.32	4131779.12	0.00148	722089.29	4131769.27	0.00147
722112.27	4131759.41	0.00146	722135.24	4131749.56	0.00145

722158.22 4131739.70 0.00144 722181.20 4131729.85 0.00143
722204.17 4131719.99 0.00142 722227.15 4131710.13 0.00141
722250.12 4131700.28 0.00139 722273.10 4131690.42 0.00138
722296.07 4131680.57 0.00137 722319.05 4131670.71 0.00135
722342.02 4131660.86 0.00133 722365.00 4131651.00 0.00131
722387.97 4131641.15 0.00129 722410.95 4131631.29 0.00127
722433.93 4131621.44 0.00124 722456.90 4131611.58 0.00121
722479.88 4131601.73 0.00118 722502.85 4131591.87 0.00115
722525.83 4131582.02 0.00113 722548.80 4131572.16 0.00111
722571.78 4131562.31 0.00109 722594.75 4131552.45 0.00107
722617.73 4131542.59 0.00104 722640.71 4131532.74 0.00101
722663.68 4131522.88 0.00098 722686.66 4131513.03 0.00095
722709.63 4131503.17 0.00093 722732.61 4131493.32 0.00091
722755.58 4131483.46 0.00089 722778.56 4131473.61 0.00086
722801.53 4131463.75 0.00084 722824.51 4131453.90 0.00081
722847.48 4131444.04 0.00079 722870.46 4131434.19 0.00076
722893.44 4131424.33 0.00073 722916.41 4131414.48 0.00070
722939.39 4131404.62 0.00067 722962.36 4131394.77 0.00064
722985.34 4131384.91 0.00061 723008.31 4131375.06 0.00059
723031.29 4131365.20 0.00056 723054.26 4131355.34 0.00054
723077.24 4131345.49 0.00052 723100.22 4131335.63 0.00050
723123.19 4131325.78 0.00048 723146.17 4131315.92 0.00047
723169.14 4131306.07 0.00045 723192.12 4131296.21 0.00044
723267.01 4131369.79 0.00038 723245.67 4131382.05 0.00039
723222.69 4131391.91 0.00040 723199.72 4131401.76 0.00041

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 ,
PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
723176.74	4131411.62	0.00042	723153.76	4131421.48	0.00043
723130.79	4131431.33	0.00044	723107.81	4131441.19	0.00046
723084.84	4131451.04	0.00047	723061.86	4131460.90	0.00049
723038.89	4131470.75	0.00050	723015.91	4131480.61	0.00052
722992.94	4131490.46	0.00053	722969.96	4131500.32	0.00055
722946.99	4131510.17	0.00056	722924.01	4131520.03	0.00057
722901.03	4131529.88	0.00059	722878.06	4131539.74	0.00060
722855.08	4131549.59	0.00061	722832.11	4131559.45	0.00063
722809.13	4131569.30	0.00064	722786.16	4131579.16	0.00065
722763.18	4131589.02	0.00067	722740.21	4131598.87	0.00068
722717.23	4131608.73	0.00070	722694.26	4131618.58	0.00072
722671.28	4131628.44	0.00074	722648.30		

4131638.29 0.00076
722625.33 4131648.15 0.00077 722602.35
4131658.00 0.00079
722579.38 4131667.86 0.00080 722556.40
4131677.71 0.00081
722533.43 4131687.57 0.00082 722510.45
4131697.42 0.00084
722487.48 4131707.28 0.00086 722464.50
4131717.13 0.00088
722441.52 4131726.99 0.00090 722418.55
4131736.84 0.00091
722395.57 4131746.70 0.00093 722372.60
4131756.55 0.00095
722349.62 4131766.41 0.00097 722326.65
4131776.27 0.00099
722303.67 4131786.12 0.00100 722280.70
4131795.98 0.00102
722257.72 4131805.83 0.00103 722234.75
4131815.69 0.00105
722211.77 4131825.54 0.00106 722188.79
4131835.40 0.00108
722165.82 4131845.25 0.00109 722142.84
4131855.11 0.00111
722119.87 4131864.96 0.00112 722096.89
4131874.82 0.00114
722073.92 4131884.67 0.00115 722050.94
4131894.53 0.00117
722027.97 4131904.38 0.00119 722004.99
4131914.24 0.00120
721982.01 4131924.09 0.00122 721959.04
4131933.95 0.00124
721936.06 4131943.81 0.00125 721913.09
4131953.66 0.00127
721890.11 4131963.52 0.00129 721867.14
4131973.37 0.00131
721844.16 4131983.23 0.00133 721821.19
4131993.08 0.00136
721798.21 4132002.94 0.00138 721775.24
4132012.79 0.00141
721752.26 4132022.65 0.00144 721729.28
4132032.50 0.00147
721706.31 4132042.36 0.00150 721683.33
4132052.21 0.00154
721660.36 4132062.07 0.00158 721637.38
4132071.92 0.00162
721841.17 4132144.72 0.00115 721864.15
4132134.89 0.00113
721887.14 4132125.06 0.00111 721910.12
4132115.23 0.00109
721933.11 4132105.40 0.00107 721956.09

4132095.56   0.00105
         721979.08   4132085.73   0.00103   722002.07
4132075.90   0.00101
         722025.05   4132066.07   0.00099   722048.04
4132056.24   0.00097
         722071.02   4132046.41   0.00095   722094.01
4132036.57   0.00093
         722116.99   4132026.74   0.00091   722139.98
4132016.91   0.00090
         722162.97   4132007.08   0.00088   722185.95
4131997.25   0.00086

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                    *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
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         722484.76    4131869.44        0.00065                    722507.75
4131859.61        0.00064
         722530.74    4131849.77        0.00062                    722553.72
4131839.94        0.00061
         722576.71    4131830.11        0.00060                    722599.69
4131820.28        0.00059
         722622.68    4131810.45        0.00058                    722645.66
4131800.62        0.00057
         722668.65    4131790.78        0.00056                    722691.63
4131780.95        0.00055
         722714.62    4131771.12        0.00054                    722737.61
4131761.29        0.00053
         722760.59    4131751.46        0.00052                    722783.58
4131741.63        0.00051
         722806.56    4131731.79        0.00050                    722829.55
4131721.96        0.00049
         722852.53    4131712.13        0.00048                    722875.52
4131702.30        0.00047
         722898.51    4131692.47        0.00046                    722921.49
4131682.64        0.00045
         722944.48    4131672.80        0.00044                    722967.46
4131662.97        0.00044
         722990.45    4131653.14        0.00043                    723013.43
4131643.31        0.00042
         723036.42    4131633.48        0.00042                    723059.41
4131623.65        0.00041
         723082.39    4131613.82        0.00040                    723105.38
4131603.98        0.00039
         723128.36    4131594.15        0.00039                    723151.35
4131584.32        0.00038
         723174.33    4131574.49        0.00037                    723197.32
4131564.66        0.00036
         723220.30    4131554.83        0.00036                    723243.29
4131544.99        0.00035
         723266.28    4131535.16        0.00034                    723289.26
4131525.33        0.00034
         723316.75    4131622.34        0.00031                    723293.77
4131632.17        0.00031
         723270.78    4131642.00        0.00032                    723247.80
4131651.83        0.00032
         723224.81    4131661.66        0.00033                    723201.82
4131671.49        0.00033
         723178.84    4131681.33        0.00034                    723155.85
4131691.16        0.00034
         723132.87    4131700.99        0.00035                    723109.88
4131710.82        0.00035
         723086.90    4131720.65        0.00036                    723063.91
4131730.48        0.00036
         723040.93    4131740.31        0.00037                    723017.94
4131750.15        0.00037
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         722994.95    4131759.98        0.00038                      722971.97
4131769.81        0.00039
         722948.98    4131779.64        0.00039                      722926.00
4131789.47        0.00040
         722903.01    4131799.30        0.00040                      722880.03
4131809.14        0.00041
         722857.04    4131818.97        0.00042                      722834.05
4131828.80        0.00043
         722811.07    4131838.63        0.00044                      722788.08
4131848.46        0.00045
         722765.10    4131858.29        0.00046                      722742.11
4131868.13        0.00047
         722719.13    4131877.96        0.00047                      722696.14
4131887.79        0.00048
         722673.16    4131897.62        0.00049                      722650.17
4131907.45        0.00050
         722627.18    4131917.28        0.00051                      722604.20
4131927.12        0.00051
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 201
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         722581.21    4131936.95        0.00052                      722558.23
4131946.78        0.00053
         722535.24    4131956.61        0.00054                      722512.26
4131966.44        0.00056
         722489.27    4131976.27        0.00057                      722466.28
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4131986.11 0.00058
722443.30 4131995.94 0.00060 722420.31
4132005.77 0.00061
722397.33 4132015.60 0.00063 722374.34
4132025.43 0.00064
722351.36 4132035.26 0.00066 722328.37
4132045.09 0.00067
722305.38 4132054.93 0.00069 722282.40
4132064.76 0.00071
722259.41 4132074.59 0.00073 722236.43
4132084.42 0.00075
722213.44 4132094.25 0.00077 722190.46
4132104.08 0.00079
722167.47 4132113.92 0.00081 722144.49
4132123.75 0.00083
722121.50 4132133.58 0.00085 722098.51
4132143.41 0.00088
722075.53 4132153.24 0.00090 722052.54
4132163.07 0.00092
722029.56 4132172.91 0.00095 722006.57
4132182.74 0.00097
721983.59 4132192.57 0.00100 721960.60
4132202.40 0.00102
721937.61 4132212.23 0.00104 721914.63
4132222.06 0.00107
721891.64 4132231.90 0.00109 721853.38
4132064.29 0.00120
721876.36 4132054.46 0.00118 721899.34
4132044.62 0.00116
721922.33 4132034.78 0.00114 721945.31
4132024.94 0.00112
721968.29 4132015.11 0.00110 721991.28
4132005.27 0.00108
722014.26 4131995.43 0.00107 722037.24
4131985.59 0.00105
722060.23 4131975.75 0.00103 722083.21
4131965.92 0.00101
722106.19 4131956.08 0.00100 722129.17
4131946.24 0.00098
722152.16 4131936.40 0.00096 722175.14
4131926.57 0.00095
722198.12 4131916.73 0.00093 722221.11
4131906.89 0.00091
722244.09 4131897.05 0.00090 722267.07
4131887.22 0.00088
722290.06 4131877.38 0.00087 722313.04
4131867.54 0.00085
722336.02 4131857.70 0.00083 722359.01
4131847.86 0.00082
722381.99 4131838.03 0.00080 722404.97

4131828.19   0.00078
         722427.95   4131818.35   0.00077   722450.94
4131808.51   0.00075
         722473.92   4131798.68   0.00073   722496.90
4131788.84   0.00072
         722519.89   4131779.00   0.00070   722542.87
4131769.16   0.00069
         722565.85   4131759.32   0.00068   722588.84
4131749.49   0.00067
         722611.82   4131739.65   0.00066   722634.80
4131729.81   0.00065
         722657.78   4131719.97   0.00064   722680.77
4131710.14   0.00062
         722703.75   4131700.30   0.00061   722726.73
4131690.46   0.00060
         722749.72   4131680.62   0.00058   722772.70
4131670.78   0.00057
         722795.68   4131660.95   0.00055   722818.67
4131651.11   0.00054
         722841.65   4131641.27   0.00053   722864.63
4131631.43   0.00052
         722887.61   4131621.60   0.00051   722910.60
4131611.76   0.00051
         722933.58   4131601.92   0.00050   722956.56
4131592.08   0.00049

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC

- - - -

```
         722479.57    4131798.43        0.00073                      722456.59
4131808.27        0.00074
         722433.60    4131818.11        0.00076                      722410.62
4131827.95        0.00078
         722387.64    4131837.78        0.00079                      722364.66
4131847.62        0.00081
         722341.67    4131857.46        0.00083                      722318.69
4131867.30        0.00084
         722295.71    4131877.13        0.00086                      722272.72
4131886.97        0.00087
         722249.74    4131896.81        0.00089                      722226.76
4131906.65        0.00091
         722203.77    4131916.49        0.00092                      722180.79
4131926.32        0.00094
         722157.81    4131936.16        0.00096                      722134.83
4131946.00        0.00097
         722111.84    4131955.84        0.00099                      722088.86
4131965.67        0.00101
         722065.88    4131975.51        0.00102                      722042.89
4131985.35        0.00104
         722019.91    4131995.19        0.00106                      721996.93
4132005.02        0.00108
         721973.94    4132014.86        0.00109                      721950.96
4132024.70        0.00111
         721927.98    4132034.54        0.00113                      721905.00
4132044.38        0.00115
         721882.01    4132054.21        0.00117                      721859.03
4132064.05        0.00119
         722093.85    4131295.32        0.00287                      722116.79
4131285.39        0.00286
         722139.74    4131275.46        0.00285                      722162.68
4131265.53        0.00285
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 203
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722185.62	4131255.59	0.00285	722208.57	4131245.66	0.00285
722231.51	4131235.73	0.00284	722254.45	4131225.80	0.00285
722277.39	4131215.87	0.00287	722300.34	4131205.94	0.00290
722323.28	4131196.00	0.00295	722346.22	4131186.07	0.00306
722369.16	4131176.14	0.00322	722392.11	4131166.21	0.00347
722415.05	4131156.28	0.00389	722437.99	4131146.35	0.00463
722460.93	4131136.42	0.00567	722483.88	4131126.48	0.00688
722506.82	4131116.55	0.00802	722529.76	4131106.62	0.00883
722552.71	4131096.69	0.00913	722575.65	4131086.76	0.00885
722598.59	4131076.83	0.00814	722621.53	4131066.89	0.00721
722644.48	4131056.96	0.00623	722667.42	4131047.03	0.00531
722690.36	4131037.10	0.00451	722713.30	4131027.17	0.00384
722736.25	4131017.24	0.00329	722759.19	4131007.31	0.00283
722771.12	4131056.62	0.00259	722748.18	4131066.55	0.00306
722725.24	4131076.49	0.00366	722702.30	4131086.42	0.00446
722679.35	4131096.35	0.00553	722656.41	4131106.28	0.00699
722633.47	4131116.21	0.00898	722610.53	4131126.14	0.01165
722587.58	4131136.07	0.01502	722564.64	4131146.01	0.01866
722541.70	4131155.94	0.02131	722518.76	4131165.87	0.02170
722495.81	4131175.80	0.01986	722472.87	4131185.73	0.01656
722449.93	4131195.66	0.01230	722426.99		

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4131205.60        0.00831
         722404.04    4131215.53        0.00601                        722381.10
4131225.46        0.00510
         722358.16    4131235.39        0.00468                        722335.21
4131245.32        0.00446
         722312.27    4131255.25        0.00435                        722289.33
4131265.18        0.00427
         722266.39    4131275.12        0.00422                        722243.44
4131285.05        0.00420
         722220.50    4131294.98        0.00416                        722197.56
4131304.91        0.00415
         722174.62    4131314.84        0.00414                        722151.67
4131324.77        0.00413
         722128.73    4131334.71        0.00415                        722148.89
4131034.56        0.00130
         722171.91    4131024.81        0.00130                        722194.93
4131015.07        0.00129
         722217.96    4131005.32        0.00129                        722240.98
4130995.57        0.00129
         722264.00    4130985.83        0.00129                        722287.02
4130976.08        0.00129
         722310.04    4130966.33        0.00130                        722333.06
4130956.59        0.00130
         722356.09    4130946.84        0.00131                        722379.11
4130937.09        0.00131
         722402.13    4130927.35        0.00133                        722417.99
4130974.93        0.00157
         722394.97    4130984.68        0.00153                        722371.95
4130994.42        0.00151
         722348.92    4131004.17        0.00150                        722325.90
4131013.92        0.00148
         722302.88    4131023.66        0.00147                        722279.86
4131033.41        0.00146
         722256.84    4131043.16        0.00145                        722233.82
4131052.90        0.00145
         722210.79    4131062.65        0.00145                        722187.77
4131072.39        0.00145
         721461.30    4131276.70        0.00135                        721484.22
4131266.71        0.00137
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 204
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
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 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         721507.14    4131256.72        0.00138                       721530.06
4131246.74        0.00139
         721552.97    4131236.75        0.00140                       721575.89
4131226.76        0.00140
         721598.81    4131216.78        0.00140                       721621.73
4131206.79        0.00140
         721644.65    4131196.80        0.00140                       721667.57
4131186.82        0.00139
         721690.49    4131176.83        0.00139                       721713.41
4131166.84        0.00138
         721736.32    4131156.86        0.00137                       721759.24
4131146.87        0.00136
         721782.16    4131136.88        0.00135                       721805.08
4131126.90        0.00133
         721828.00    4131116.91        0.00132                       721850.92
4131106.92        0.00131
         721873.84    4131096.94        0.00130                       721896.76
4131086.95        0.00129
         721903.62    4131127.59        0.00139                       721880.70
4131137.58        0.00140
         721857.78    4131147.57        0.00142                       721834.87
4131157.55        0.00143
         721811.95    4131167.54        0.00145                       721789.03
4131177.53        0.00147
         721766.11    4131187.51        0.00148                       721743.19
4131197.50        0.00150
         721720.27    4131207.48        0.00152                       721697.35
4131217.47        0.00153
         721674.43    4131227.46        0.00154                       721651.52
4131237.44        0.00155
         721628.60    4131247.43        0.00156                       721605.68
4131257.42        0.00157
         721582.76    4131267.40        0.00157                       721559.84
4131277.39        0.00157
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         721536.92    4131287.38        0.00157                        721514.00
4131297.36        0.00156
         721491.08    4131307.35        0.00155                        721412.42
4131178.31        0.00098
         721435.37    4131168.40        0.00100                        721458.32
4131158.48        0.00101
         721481.27    4131148.57        0.00102                        721504.22
4131138.66        0.00103
         721527.17    4131128.74        0.00104                        721550.13
4131118.83        0.00105
         721573.08    4131108.92        0.00106                        721596.03
4131099.00        0.00107
         721618.98    4131089.09        0.00107                        721641.93
4131079.18        0.00108
         721664.88    4131069.26        0.00108                        721687.83
4131059.35        0.00108
         721710.78    4131049.44        0.00108                        721733.73
4131039.52        0.00108
         721756.68    4131029.61        0.00108                        721779.63
4131019.70        0.00108
         721802.58    4131009.78        0.00107                        721825.53
4130999.87        0.00107
         721848.48    4130989.95        0.00106                        721871.43
4130980.04        0.00106
         721894.38    4130970.13        0.00105                        721917.33
4130960.21        0.00105
         721940.28    4130950.30        0.00104                        721963.23
4130940.39        0.00103
         721986.18    4130930.47        0.00103                        722009.13
4130920.56        0.00102
         722032.08    4130910.65        0.00101                        722055.03
4130900.73        0.00101
         722077.99    4130890.82        0.00100                        722100.94
4130880.91        0.00099
         722123.89    4130870.99        0.00099                        722146.84
4130861.08        0.00098
         722169.79    4130851.17        0.00098                        722192.74
4130841.25        0.00097
         722215.69    4130831.34        0.00097                        722238.64
4130821.43        0.00097
         722261.59    4130811.51        0.00096                        722284.54
4130801.60        0.00096
         722307.49    4130791.68        0.00095                        722330.44
4130781.77        0.00095
         722374.04    4130839.19        0.00107                        722351.09
4130849.10        0.00107
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53
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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722328.14	4130859.02	0.00107	722305.19	4130868.93	0.00107
722282.24	4130878.84	0.00108	722259.29	4130888.76	0.00108
722236.34	4130898.67	0.00108	722213.38	4130908.58	0.00108
722190.43	4130918.50	0.00109	722167.48	4130928.41	0.00109
722144.53	4130938.33	0.00110	722121.58	4130948.24	0.00110
722098.63	4130958.15	0.00111	722075.68	4130968.07	0.00112
722052.73	4130977.98	0.00113	722029.78	4130987.89	0.00114
722006.83	4130997.81	0.00115	721983.88	4131007.72	0.00116
721960.93	4131017.63	0.00117	721937.98	4131027.55	0.00118
721915.03	4131037.46	0.00119	721892.08	4131047.37	0.00120
721869.13	4131057.29	0.00121	721846.18	4131067.20	0.00121
721823.23	4131077.11	0.00122	721800.28	4131087.03	0.00123
721777.33	4131096.94	0.00124	721754.38	4131106.85	0.00125
721731.43	4131116.77	0.00126	721708.48		

4131126.68 0.00126
721685.52 4131136.60 0.00127 721662.57
4131146.51 0.00127
721639.62 4131156.42 0.00127 721616.67
4131166.34 0.00127
721593.72 4131176.25 0.00126 721570.77
4131186.16 0.00126
721547.82 4131196.08 0.00125 721524.87
4131205.99 0.00124
721501.92 4131215.90 0.00123 721478.97
4131225.82 0.00122
721456.02 4131235.73 0.00120 721024.56
4133243.02 0.00368
720598.35 4133478.99 0.00666 721792.22
4132066.34 0.00127
721583.83 4131986.08 0.00215 721606.81
4131976.23 0.00208
721629.78 4131966.37 0.00201 721652.76
4131956.52 0.00195
721675.73 4131946.66 0.00190 721698.71
4131936.81 0.00185
721721.69 4131926.95 0.00181 721744.66
4131917.10 0.00177
721767.64 4131907.24 0.00174 721790.61
4131897.38 0.00171
721813.59 4131887.53 0.00168 721836.56
4131877.67 0.00165
721859.54 4131867.82 0.00163 721882.51
4131857.96 0.00161
721905.49 4131848.11 0.00159 721928.46
4131838.25 0.00157
721951.44 4131828.40 0.00155 721974.42
4131818.54 0.00154
721997.39 4131808.69 0.00152 722020.37
4131798.83 0.00151
722043.34 4131788.98 0.00149 722066.32
4131779.12 0.00148
722089.29 4131769.27 0.00147 722112.27
4131759.41 0.00146
722135.24 4131749.56 0.00145 722158.22
4131739.70 0.00144
722181.20 4131729.85 0.00143 722204.17
4131719.99 0.00142
722227.15 4131710.13 0.00141 722250.12
4131700.28 0.00139
722273.10 4131690.42 0.00138 722296.07
4131680.57 0.00137
722319.05 4131670.71 0.00135 722342.02
4131660.86 0.00133
722365.00 4131651.00 0.00131 722387.97

4131641.15   0.00129
         722410.95   4131631.29   0.00127   722433.93
4131621.44   0.00124

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         722456.90   4131611.58   0.00121   722479.88
4131601.73   0.00118
         722502.85   4131591.87   0.00115   722525.83
4131582.02   0.00113
         722548.80   4131572.16   0.00111   722571.78
4131562.31   0.00109
         722594.75   4131552.45   0.00107   722617.73
4131542.59   0.00104
         722640.71   4131532.74   0.00101   722663.68
4131522.88   0.00098
         722686.66   4131513.03   0.00095   722709.63
4131503.17   0.00093
         722732.61   4131493.32   0.00091   722755.58
4131483.46   0.00089
         722778.56   4131473.61   0.00086   722801.53
4131463.75   0.00084
         722824.51   4131453.90   0.00081   722847.48
4131444.04   0.00079
         722870.46   4131434.19   0.00076   722893.44
4131424.33   0.00073

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         722916.41    4131414.48        0.00070                    722939.39
4131404.62        0.00067
         722962.36    4131394.77        0.00064                    722985.34
4131384.91        0.00061
         723008.31    4131375.06        0.00059                    723031.29
4131365.20        0.00056
         723054.26    4131355.34        0.00054                    723077.24
4131345.49        0.00052
         723100.22    4131335.63        0.00050                    723123.19
4131325.78        0.00048
         723146.17    4131315.92        0.00047                    723169.14
4131306.07        0.00045
         723192.12    4131296.21        0.00044                    723267.01
4131369.79        0.00038
         723245.67    4131382.05        0.00039                    723222.69
4131391.91        0.00040
         723199.72    4131401.76        0.00041                    723176.74
4131411.62        0.00042
         723153.76    4131421.48        0.00043                    723130.79
4131431.33        0.00044
         723107.81    4131441.19        0.00046                    723084.84
4131451.04        0.00047
         723061.86    4131460.90        0.00049                    723038.89
4131470.75        0.00050
         723015.91    4131480.61        0.00052                    722992.94
4131490.46        0.00053
         722969.96    4131500.32        0.00055                    722946.99
4131510.17        0.00056
         722924.01    4131520.03        0.00057                    722901.03
4131529.88        0.00059
         722878.06    4131539.74        0.00060                    722855.08
4131549.59        0.00061
         722832.11    4131559.45        0.00063                    722809.13
4131569.30        0.00064
         722786.16    4131579.16        0.00065                    722763.18
4131589.02        0.00067
         722740.21    4131598.87        0.00068                    722717.23
4131608.73        0.00070
         722694.26    4131618.58        0.00072                    722671.28
4131628.44        0.00074
         722648.30    4131638.29        0.00076                    722625.33
4131648.15        0.00077
         722602.35    4131658.00        0.00079                    722579.38
4131667.86        0.00080
         722556.40    4131677.71        0.00081                    722533.43
4131687.57        0.00082
         722510.45    4131697.42        0.00084                    722487.48
4131707.28        0.00086
         722464.50    4131717.13        0.00088                    722441.52
4131726.99        0.00090
```

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 ,
PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 ,
PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722418.55	4131736.84	0.00091	722395.57	4131746.70	0.00093
722372.60	4131756.55	0.00095	722349.62	4131766.41	0.00097
722326.65	4131776.27	0.00099	722303.67	4131786.12	0.00100
722280.70	4131795.98	0.00102	722257.72	4131805.83	0.00103
722234.75	4131815.69	0.00105	722211.77	4131825.54	0.00106
722188.79	4131835.40	0.00108	722165.82	4131845.25	0.00109
722142.84	4131855.11	0.00111	722119.87	4131864.96	0.00112
722096.89	4131874.82	0.00114	722073.92	4131884.67	0.00115
722050.94	4131894.53	0.00117	722027.97	4131904.38	0.00119
722004.99	4131914.24	0.00120	721982.01	4131924.09	0.00122
721959.04	4131933.95	0.00124	721936.06	4131943.81	0.00125
721913.09	4131953.66	0.00127	721890.11		

4131963.52 0.00129
721867.14 4131973.37 0.00131 721844.16
4131983.23 0.00133
721821.19 4131993.08 0.00136 721798.21
4132002.94 0.00138
721775.24 4132012.79 0.00141 721752.26
4132022.65 0.00144
721729.28 4132032.50 0.00147 721706.31
4132042.36 0.00150
721683.33 4132052.21 0.00154 721660.36
4132062.07 0.00158
721637.38 4132071.92 0.00162 721841.17
4132144.72 0.00115
721864.15 4132134.89 0.00113 721887.14
4132125.06 0.00111
721910.12 4132115.23 0.00109 721933.11
4132105.40 0.00107
721956.09 4132095.56 0.00105 721979.08
4132085.73 0.00103
722002.07 4132075.90 0.00101 722025.05
4132066.07 0.00099
722048.04 4132056.24 0.00097 722071.02
4132046.41 0.00095
722094.01 4132036.57 0.00093 722116.99
4132026.74 0.00091
722139.98 4132016.91 0.00090 722162.97
4132007.08 0.00088
722185.95 4131997.25 0.00086 722208.94
4131987.42 0.00084
722231.92 4131977.58 0.00082 722254.91
4131967.75 0.00081
722277.89 4131957.92 0.00079 722300.88
4131948.09 0.00077
722323.86 4131938.26 0.00076 722346.85
4131928.43 0.00074
722369.84 4131918.60 0.00073 722392.82
4131908.76 0.00071
722415.81 4131898.93 0.00069 722438.79
4131889.10 0.00068
722461.78 4131879.27 0.00066 722484.76
4131869.44 0.00065
722507.75 4131859.61 0.00064 722530.74
4131849.77 0.00062
722553.72 4131839.94 0.00061 722576.71
4131830.11 0.00060
722599.69 4131820.28 0.00059 722622.68
4131810.45 0.00058
722645.66 4131800.62 0.00057 722668.65
4131790.78 0.00056
722691.63 4131780.95 0.00055 722714.62

4131771.12   0.00054
         722737.61   4131761.29   0.00053   722760.59
4131751.46   0.00052
         722783.58   4131741.63   0.00051   722806.56
4131731.79   0.00050
         722829.55   4131721.96   0.00049   722852.53
4131712.13   0.00048
         722875.52   4131702.30   0.00047   722898.51
4131692.47   0.00046
         722921.49   4131682.64   0.00045   722944.48
4131672.80   0.00044
         722967.46   4131662.97   0.00044   722990.45
4131653.14   0.00043
         723013.43   4131643.31   0.00042   723036.42
4131633.48   0.00042
         723059.41   4131623.65   0.00041   723082.39
4131613.82   0.00040

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         723105.38   4131603.98   0.00039   723128.36
4131594.15   0.00039
         723151.35   4131584.32   0.00038   723174.33
4131574.49   0.00037
         723197.32   4131564.66   0.00036   723220.30
4131554.83   0.00036

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         723243.29    4131544.99        0.00035                    723266.28
4131535.16        0.00034
         723289.26    4131525.33        0.00034                    723316.75
4131622.34        0.00031
         723293.77    4131632.17        0.00031                    723270.78
4131642.00        0.00032
         723247.80    4131651.83        0.00032                    723224.81
4131661.66        0.00033
         723201.82    4131671.49        0.00033                    723178.84
4131681.33        0.00034
         723155.85    4131691.16        0.00034                    723132.87
4131700.99        0.00035
         723109.88    4131710.82        0.00035                    723086.90
4131720.65        0.00036
         723063.91    4131730.48        0.00036                    723040.93
4131740.31        0.00037
         723017.94    4131750.15        0.00037                    722994.95
4131759.98        0.00038
         722971.97    4131769.81        0.00039                    722948.98
4131779.64        0.00039
         722926.00    4131789.47        0.00040                    722903.01
4131799.30        0.00040
         722880.03    4131809.14        0.00041                    722857.04
4131818.97        0.00042
         722834.05    4131828.80        0.00043                    722811.07
4131838.63        0.00044
         722788.08    4131848.46        0.00045                    722765.10
4131858.29        0.00046
         722742.11    4131868.13        0.00047                    722719.13
4131877.96        0.00047
         722696.14    4131887.79        0.00048                    722673.16
4131897.62        0.00049
         722650.17    4131907.45        0.00050                    722627.18
4131917.28        0.00051
         722604.20    4131927.12        0.00051                    722581.21
4131936.95        0.00052
         722558.23    4131946.78        0.00053                    722535.24
4131956.61        0.00054
         722512.26    4131966.44        0.00056                    722489.27
4131976.27        0.00057
         722466.28    4131986.11        0.00058                    722443.30
4131995.94        0.00060
         722420.31    4132005.77        0.00061                    722397.33
4132015.60        0.00063
         722374.34    4132025.43        0.00064                    722351.36
4132035.26        0.00066
         722328.37    4132045.09        0.00067                    722305.38
4132054.93        0.00069
         722282.40    4132064.76        0.00071                    722259.41
4132074.59        0.00073
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         722236.43    4132084.42        0.00075                       722213.44
4132094.25        0.00077
         722190.46    4132104.08        0.00079                       722167.47
4132113.92        0.00081
         722144.49    4132123.75        0.00083                       722121.50
4132133.58        0.00085
         722098.51    4132143.41        0.00088                       722075.53
4132153.24        0.00090
         722052.54    4132163.07        0.00092                       722029.56
4132172.91        0.00095
         722006.57    4132182.74        0.00097                       721983.59
4132192.57        0.00100
         721960.60    4132202.40        0.00102                       721937.61
4132212.23        0.00104
         721914.63    4132222.06        0.00107                       721891.64
4132231.90        0.00109
         721853.38    4132064.29        0.00120                       721876.36
4132054.46        0.00118
         721899.34    4132044.62        0.00116                       721922.33
4132034.78        0.00114
         721945.31    4132024.94        0.00112                       721968.29
4132015.11        0.00110
         721991.28    4132005.27        0.00108                       722014.26
4131995.43        0.00107
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 209
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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4131503.54        0.00040
         723186.39    4131493.71        0.00039                        723209.38
4131483.87        0.00038
         723232.36    4131474.03        0.00037                        723255.34
4131464.19        0.00036
         723278.33    4131454.35        0.00035                        723260.99
4131463.95        0.00036
         723238.01    4131473.79        0.00037                        723215.03
4131483.62        0.00038
         723192.04    4131493.46        0.00039                        723169.06
4131503.30        0.00040
         723146.08    4131513.14        0.00041                        723123.10
4131522.98        0.00042
         723100.11    4131532.81        0.00043                        723077.13
4131542.65        0.00044
         723054.15    4131552.49        0.00045                        723031.16
4131562.33        0.00046
         723008.18    4131572.16        0.00047                        722985.20
4131582.00        0.00047
         722962.21    4131591.84        0.00048                        722939.23
4131601.68        0.00049
         722916.25    4131611.51        0.00050                        722893.27
4131621.35        0.00051
         722870.28    4131631.19        0.00052                        722847.30
4131641.03        0.00053
         722824.32    4131650.87        0.00054                        722801.33
4131660.70        0.00055
         722778.35    4131670.54        0.00056                        722755.37
4131680.38        0.00058
         722732.38    4131690.22        0.00059                        722709.40
4131700.05        0.00060
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 210
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722686.42	4131709.89	0.00062	722663.43	4131719.73	0.00063
722640.45	4131729.57	0.00064	722617.47	4131739.41	0.00065
722594.49	4131749.24	0.00066	722571.50	4131759.08	0.00067
722548.52	4131768.92	0.00068	722525.54	4131778.76	0.00070
722502.55	4131788.59	0.00071	722479.57	4131798.43	0.00073
722456.59	4131808.27	0.00074	722433.60	4131818.11	0.00076
722410.62	4131827.95	0.00078	722387.64	4131837.78	0.00079
722364.66	4131847.62	0.00081	722341.67	4131857.46	0.00083
722318.69	4131867.30	0.00084	722295.71	4131877.13	0.00086
722272.72	4131886.97	0.00087	722249.74	4131896.81	0.00089
722226.76	4131906.65	0.00091	722203.77	4131916.49	0.00092
722180.79	4131926.32	0.00094	722157.81	4131936.16	0.00096
722134.83	4131946.00	0.00097	722111.84	4131955.84	0.00099
722088.86	4131965.67	0.00101	722065.88	4131975.51	0.00102
722042.89	4131985.35	0.00104	722019.91	4131995.19	0.00106
721996.93	4132005.02	0.00108	721973.94	4132014.86	0.00109
721950.96	4132024.70	0.00111	721927.98	4132034.54	0.00113
721905.00	4132044.38	0.00115	721882.01	4132054.21	0.00117
721859.03	4132064.05	0.00119	722093.85	4131295.32	0.00287
722116.79	4131285.39	0.00286	722139.74	4131275.46	0.00285
722162.68	4131265.53	0.00285	722185.62	4131255.59	0.00285

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         722208.57    4131245.66        0.00285                      722231.51
4131235.73        0.00284
         722254.45    4131225.80        0.00285                      722277.39
4131215.87        0.00287
         722300.34    4131205.94        0.00290                      722323.28
4131196.00        0.00295
         722346.22    4131186.07        0.00306                      722369.16
4131176.14        0.00322
         722392.11    4131166.21        0.00347                      722415.05
4131156.28        0.00389
         722437.99    4131146.35        0.00463                      722460.93
4131136.42        0.00567
         722483.88    4131126.48        0.00688                      722506.82
4131116.55        0.00802
         722529.76    4131106.62        0.00883                      722552.71
4131096.69        0.00913
         722575.65    4131086.76        0.00885                      722598.59
4131076.83        0.00814
         722621.53    4131066.89        0.00721                      722644.48
4131056.96        0.00623
         722667.42    4131047.03        0.00531                      722690.36
4131037.10        0.00451
         722713.30    4131027.17        0.00384                      722736.25
4131017.24        0.00329
         722759.19    4131007.31        0.00283                      722771.12
4131056.62        0.00259
         722748.18    4131066.55        0.00306                      722725.24
4131076.49        0.00366
         722702.30    4131086.42        0.00446                      722679.35
4131096.35        0.00553
         722656.41    4131106.28        0.00699                      722633.47
4131116.21        0.00898
         722610.53    4131126.14        0.01165                      722587.58
4131136.07        0.01502
         722564.64    4131146.01        0.01866                      722541.70
4131155.94        0.02131
         722518.76    4131165.87        0.02170                      722495.81
4131175.80        0.01986
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 211
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                     INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
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                PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722472.87    4131185.73        0.01656                      722449.93
4131195.66        0.01230
         722426.99    4131205.60        0.00831                      722404.04
4131215.53        0.00601
         722381.10    4131225.46        0.00510                      722358.16
4131235.39        0.00468
         722335.21    4131245.32        0.00446                      722312.27
4131255.25        0.00435
         722289.33    4131265.18        0.00427                      722266.39
4131275.12        0.00422
         722243.44    4131285.05        0.00420                      722220.50
4131294.98        0.00416
         722197.56    4131304.91        0.00415                      722174.62
4131314.84        0.00414
         722151.67    4131324.77        0.00413                      722128.73
4131334.71        0.00415
         722148.89    4131034.56        0.00130                      722171.91
4131024.81        0.00130
         722194.93    4131015.07        0.00129                      722217.96
4131005.32        0.00129
         722240.98    4130995.57        0.00129                      722264.00
4130985.83        0.00129
         722287.02    4130976.08        0.00129                      722310.04
4130966.33        0.00130
         722333.06    4130956.59        0.00130                      722356.09
4130946.84        0.00131
         722379.11    4130937.09        0.00131                      722402.13
4130927.35        0.00133
         722417.99    4130974.93        0.00157                      722394.97
4130984.68        0.00153
         722371.95    4130994.42        0.00151                      722348.92
4131004.17        0.00150
         722325.90    4131013.92        0.00148                      722302.88
4131023.66        0.00147
         722279.86    4131033.41        0.00146                      722256.84
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4131043.16 0.00145
  722233.82 4131052.90 0.00145 722210.79
4131062.65 0.00145
  722187.77 4131072.39 0.00145 721461.30
4131276.70 0.00135
  721484.22 4131266.71 0.00137 721507.14
4131256.72 0.00138
  721530.06 4131246.74 0.00139 721552.97
4131236.75 0.00140
  721575.89 4131226.76 0.00140 721598.81
4131216.78 0.00140
  721621.73 4131206.79 0.00140 721644.65
4131196.80 0.00140
  721667.57 4131186.82 0.00139 721690.49
4131176.83 0.00139
  721713.41 4131166.84 0.00138 721736.32
4131156.86 0.00137
  721759.24 4131146.87 0.00136 721782.16
4131136.88 0.00135
  721805.08 4131126.90 0.00133 721828.00
4131116.91 0.00132
  721850.92 4131106.92 0.00131 721873.84
4131096.94 0.00130
  721896.76 4131086.95 0.00129 721903.62
4131127.59 0.00139
  721880.70 4131137.58 0.00140 721857.78
4131147.57 0.00142
  721834.87 4131157.55 0.00143 721811.95
4131167.54 0.00145
  721789.03 4131177.53 0.00147 721766.11
4131187.51 0.00148
  721743.19 4131197.50 0.00150 721720.27
4131207.48 0.00152
  721697.35 4131217.47 0.00153 721674.43
4131227.46 0.00154
  721651.52 4131237.44 0.00155 721628.60
4131247.43 0.00156
  721605.68 4131257.42 0.00157 721582.76
4131267.40 0.00157
  721559.84 4131277.39 0.00157 721536.92
4131287.38 0.00157
  721514.00 4131297.36 0.00156 721491.08
4131307.35 0.00155
  721412.42 4131178.31 0.00098 721435.37
4131168.40 0.00100

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721458.32	4131158.48	0.00101	721481.27	4131148.57	0.00102
721504.22	4131138.66	0.00103	721527.17	4131128.74	0.00104
721550.13	4131118.83	0.00105	721573.08	4131108.92	0.00106
721596.03	4131099.00	0.00107	721618.98	4131089.09	0.00107
721641.93	4131079.18	0.00108	721664.88	4131069.26	0.00108
721687.83	4131059.35	0.00108	721710.78	4131049.44	0.00108
721733.73	4131039.52	0.00108	721756.68	4131029.61	0.00108
721779.63	4131019.70	0.00108	721802.58	4131009.78	0.00107
721825.53	4130999.87	0.00107	721848.48	4130989.95	0.00106
721871.43	4130980.04	0.00106	721894.38	4130970.13	0.00105
721917.33	4130960.21	0.00105	721940.28	4130950.30	0.00104
721963.23	4130940.39	0.00103	721986.18	4130930.47	0.00103
722009.13	4130920.56	0.00102	722032.08	4130910.65	0.00101
722055.03	4130900.73	0.00101	722077.99	4130890.82	0.00100

```
         722100.94    4130880.91        0.00099                    722123.89
4130870.99        0.00099
         722146.84    4130861.08        0.00098                    722169.79
4130851.17        0.00098
         722192.74    4130841.25        0.00097                    722215.69
4130831.34        0.00097
         722238.64    4130821.43        0.00097                    722261.59
4130811.51        0.00096
         722284.54    4130801.60        0.00096                    722307.49
4130791.68        0.00095
         722330.44    4130781.77        0.00095                    722374.04
4130839.19        0.00107
         722351.09    4130849.10        0.00107                    722328.14
4130859.02        0.00107
         722305.19    4130868.93        0.00107                    722282.24
4130878.84        0.00108
         722259.29    4130888.76        0.00108                    722236.34
4130898.67        0.00108
         722213.38    4130908.58        0.00108                    722190.43
4130918.50        0.00109
         722167.48    4130928.41        0.00109                    722144.53
4130938.33        0.00110
         722121.58    4130948.24        0.00110                    722098.63
4130958.15        0.00111
         722075.68    4130968.07        0.00112                    722052.73
4130977.98        0.00113
         722029.78    4130987.89        0.00114                    722006.83
4130997.81        0.00115
         721983.88    4131007.72        0.00116                    721960.93
4131017.63        0.00117
         721937.98    4131027.55        0.00118                    721915.03
4131037.46        0.00119
         721892.08    4131047.37        0.00120                    721869.13
4131057.29        0.00121
         721846.18    4131067.20        0.00121                    721823.23
4131077.11        0.00122
         721800.28    4131087.03        0.00123                    721777.33
4131096.94        0.00124
         721754.38    4131106.85        0.00125                    721731.43
4131116.77        0.00126
         721708.48    4131126.68        0.00126                    721685.52
4131136.60        0.00127
         721662.57    4131146.51        0.00127                    721639.62
4131156.42        0.00127
         721616.67    4131166.34        0.00127                    721593.72
4131176.25        0.00126
         721570.77    4131186.16        0.00126                    721547.82
4131196.08        0.00125
         721524.87    4131205.99        0.00124                    721501.92
4131215.90        0.00123
```

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

4131808.69 0.00152
722020.37 4131798.83 0.00151 722043.34
4131788.98 0.00149
722066.32 4131779.12 0.00148 722089.29
4131769.27 0.00147
722112.27 4131759.41 0.00146 722135.24
4131749.56 0.00145
722158.22 4131739.70 0.00144 722181.20
4131729.85 0.00143
722204.17 4131719.99 0.00142 722227.15
4131710.13 0.00141
722250.12 4131700.28 0.00139 722273.10
4131690.42 0.00138
722296.07 4131680.57 0.00137 722319.05
4131670.71 0.00135
722342.02 4131660.86 0.00133 722365.00
4131651.00 0.00131
722387.97 4131641.15 0.00129 722410.95
4131631.29 0.00127
722433.93 4131621.44 0.00124 722456.90
4131611.58 0.00121
722479.88 4131601.73 0.00118 722502.85
4131591.87 0.00115
722525.83 4131582.02 0.00113 722548.80
4131572.16 0.00111
722571.78 4131562.31 0.00109 722594.75
4131552.45 0.00107
722617.73 4131542.59 0.00104 722640.71
4131532.74 0.00101
722663.68 4131522.88 0.00098 722686.66
4131513.03 0.00095
722709.63 4131503.17 0.00093 722732.61
4131493.32 0.00091
722755.58 4131483.46 0.00089 722778.56
4131473.61 0.00086
722801.53 4131463.75 0.00084 722824.51
4131453.90 0.00081
722847.48 4131444.04 0.00079 722870.46
4131434.19 0.00076
722893.44 4131424.33 0.00073 722916.41
4131414.48 0.00070
722939.39 4131404.62 0.00067 722962.36
4131394.77 0.00064
722985.34 4131384.91 0.00061 723008.31
4131375.06 0.00059
723031.29 4131365.20 0.00056 723054.26
4131355.34 0.00054
723077.24 4131345.49 0.00052 723100.22
4131335.63 0.00050
723123.19 4131325.78 0.00048 723146.17

4131315.92   0.00047
         723169.14   4131306.07   0.00045   723192.12
4131296.21   0.00044
         723267.01   4131369.79   0.00038   723245.67
4131382.05   0.00039
         723222.69   4131391.91   0.00040   723199.72
4131401.76   0.00041
         723176.74   4131411.62   0.00042   723153.76
4131421.48   0.00043

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

722809.13 4131569.30 0.00064 722786.16
4131579.16 0.00065
722763.18 4131589.02 0.00067 722740.21
4131598.87 0.00068
722717.23 4131608.73 0.00070 722694.26
4131618.58 0.00072
722671.28 4131628.44 0.00074 722648.30
4131638.29 0.00076
722625.33 4131648.15 0.00077 722602.35
4131658.00 0.00079
722579.38 4131667.86 0.00080 722556.40
4131677.71 0.00081
722533.43 4131687.57 0.00082 722510.45
4131697.42 0.00084
722487.48 4131707.28 0.00086 722464.50
4131717.13 0.00088
722441.52 4131726.99 0.00090 722418.55
4131736.84 0.00091
722395.57 4131746.70 0.00093 722372.60
4131756.55 0.00095
722349.62 4131766.41 0.00097 722326.65
4131776.27 0.00099
722303.67 4131786.12 0.00100 722280.70
4131795.98 0.00102
722257.72 4131805.83 0.00103 722234.75
4131815.69 0.00105
722211.77 4131825.54 0.00106 722188.79
4131835.40 0.00108
722165.82 4131845.25 0.00109 722142.84
4131855.11 0.00111
722119.87 4131864.96 0.00112 722096.89
4131874.82 0.00114
722073.92 4131884.67 0.00115 722050.94
4131894.53 0.00117
722027.97 4131904.38 0.00119 722004.99
4131914.24 0.00120
721982.01 4131924.09 0.00122 721959.04
4131933.95 0.00124
721936.06 4131943.81 0.00125 721913.09
4131953.66 0.00127
721890.11 4131963.52 0.00129 721867.14
4131973.37 0.00131
721844.16 4131983.23 0.00133 721821.19
4131993.08 0.00136
721798.21 4132002.94 0.00138 721775.24
4132012.79 0.00141
721752.26 4132022.65 0.00144 721729.28
4132032.50 0.00147
721706.31 4132042.36 0.00150 721683.33
4132052.21 0.00154

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         721660.36    4132062.07        0.00158                      721637.38
4132071.92        0.00162
         721841.17    4132144.72        0.00115                      721864.15
4132134.89        0.00113
         721887.14    4132125.06        0.00111                      721910.12
4132115.23        0.00109
         721933.11    4132105.40        0.00107                      721956.09
4132095.56        0.00105
         721979.08    4132085.73        0.00103                      722002.07
4132075.90        0.00101
         722025.05    4132066.07        0.00099                      722048.04
4132056.24        0.00097
         722071.02    4132046.41        0.00095                      722094.01
4132036.57        0.00093
         722116.99    4132026.74        0.00091                      722139.98
4132016.91        0.00090
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***       10:17:53

                                    PAGE 215
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722162.97    4132007.08        0.00088                      722185.95
4131997.25        0.00086
         722208.94    4131987.42        0.00084                      722231.92
4131977.58        0.00082
         722254.91    4131967.75        0.00081                      722277.89
4131957.92        0.00079
         722300.88    4131948.09        0.00077                      722323.86
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4131938.26 0.00076
722346.85 4131928.43 0.00074 722369.84
4131918.60 0.00073
722392.82 4131908.76 0.00071 722415.81
4131898.93 0.00069
722438.79 4131889.10 0.00068 722461.78
4131879.27 0.00066
722484.76 4131869.44 0.00065 722507.75
4131859.61 0.00064
722530.74 4131849.77 0.00062 722553.72
4131839.94 0.00061
722576.71 4131830.11 0.00060 722599.69
4131820.28 0.00059
722622.68 4131810.45 0.00058 722645.66
4131800.62 0.00057
722668.65 4131790.78 0.00056 722691.63
4131780.95 0.00055
722714.62 4131771.12 0.00054 722737.61
4131761.29 0.00053
722760.59 4131751.46 0.00052 722783.58
4131741.63 0.00051
722806.56 4131731.79 0.00050 722829.55
4131721.96 0.00049
722852.53 4131712.13 0.00048 722875.52
4131702.30 0.00047
722898.51 4131692.47 0.00046 722921.49
4131682.64 0.00045
722944.48 4131672.80 0.00044 722967.46
4131662.97 0.00044
722990.45 4131653.14 0.00043 723013.43
4131643.31 0.00042
723036.42 4131633.48 0.00042 723059.41
4131623.65 0.00041
723082.39 4131613.82 0.00040 723105.38
4131603.98 0.00039
723128.36 4131594.15 0.00039 723151.35
4131584.32 0.00038
723174.33 4131574.49 0.00037 723197.32
4131564.66 0.00036
723220.30 4131554.83 0.00036 723243.29
4131544.99 0.00035
723266.28 4131535.16 0.00034 723289.26
4131525.33 0.00034
723316.75 4131622.34 0.00031 723293.77
4131632.17 0.00031
723270.78 4131642.00 0.00032 723247.80
4131651.83 0.00032
723224.81 4131661.66 0.00033 723201.82
4131671.49 0.00033
723178.84 4131681.33 0.00034 723155.85

4131691.16   0.00034
         723132.87   4131700.99   0.00035   723109.88
4131710.82   0.00035
         723086.90   4131720.65   0.00036   723063.91
4131730.48   0.00036
         723040.93   4131740.31   0.00037   723017.94
4131750.15   0.00037
         722994.95   4131759.98   0.00038   722971.97
4131769.81   0.00039
         722948.98   4131779.64   0.00039   722926.00
4131789.47   0.00040
         722903.01   4131799.30   0.00040   722880.03
4131809.14   0.00041
         722857.04   4131818.97   0.00042   722834.05
4131828.80   0.00043
         722811.07   4131838.63   0.00044   722788.08
4131848.46   0.00045
         722765.10   4131858.29   0.00046   722742.11
4131868.13   0.00047
         722719.13   4131877.96   0.00047   722696.14
4131887.79   0.00048
         722673.16   4131897.62   0.00049   722650.17
4131907.45   0.00050

 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                                *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF DPM   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -

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         722627.18    4131917.28        0.00051                    722604.20
4131927.12        0.00051
         722581.21    4131936.95        0.00052                    722558.23
4131946.78        0.00053
         722535.24    4131956.61        0.00054                    722512.26
4131966.44        0.00056
         722489.27    4131976.27        0.00057                    722466.28
4131986.11        0.00058
         722443.30    4131995.94        0.00060                    722420.31
4132005.77        0.00061
         722397.33    4132015.60        0.00063                    722374.34
4132025.43        0.00064
         722351.36    4132035.26        0.00066                    722328.37
4132045.09        0.00067
         722305.38    4132054.93        0.00069                    722282.40
4132064.76        0.00071
         722259.41    4132074.59        0.00073                    722236.43
4132084.42        0.00075
         722213.44    4132094.25        0.00077                    722190.46
4132104.08        0.00079
         722167.47    4132113.92        0.00081                    722144.49
4132123.75        0.00083
         722121.50    4132133.58        0.00085                    722098.51
4132143.41        0.00088
         722075.53    4132153.24        0.00090                    722052.54
4132163.07        0.00092
         722029.56    4132172.91        0.00095                    722006.57
4132182.74        0.00097
         721983.59    4132192.57        0.00100                    721960.60
4132202.40        0.00102
         721937.61    4132212.23        0.00104                    721914.63
4132222.06        0.00107
         721891.64    4132231.90        0.00109                    721853.38
4132064.29        0.00120
         721876.36    4132054.46        0.00118                    721899.34
4132044.62        0.00116
         721922.33    4132034.78        0.00114                    721945.31
4132024.94        0.00112
         721968.29    4132015.11        0.00110                    721991.28
4132005.27        0.00108
         722014.26    4131995.43        0.00107                    722037.24
4131985.59        0.00105
         722060.23    4131975.75        0.00103                    722083.21
4131965.92        0.00101
         722106.19    4131956.08        0.00100                    722129.17
4131946.24        0.00098
         722152.16    4131936.40        0.00096                    722175.14
4131926.57        0.00095
         722198.12    4131916.73        0.00093                    722221.11
4131906.89        0.00091
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         722244.09    4131897.05        0.00090                      722267.07
4131887.22        0.00088
         722290.06    4131877.38        0.00087                      722313.04
4131867.54        0.00085
         722336.02    4131857.70        0.00083                      722359.01
4131847.86        0.00082
         722381.99    4131838.03        0.00080                      722404.97
4131828.19        0.00078
         722427.95    4131818.35        0.00077                      722450.94
4131808.51        0.00075
         722473.92    4131798.68        0.00073                      722496.90
4131788.84        0.00072
         722519.89    4131779.00        0.00070                      722542.87
4131769.16        0.00069
         722565.85    4131759.32        0.00068                      722588.84
4131749.49        0.00067
         722611.82    4131739.65        0.00066                      722634.80
4131729.81        0.00065
         722657.78    4131719.97        0.00064                      722680.77
4131710.14        0.00062
         722703.75    4131700.30        0.00061                      722726.73
4131690.46        0.00060
         722749.72    4131680.62        0.00058                      722772.70
4131670.78        0.00057
         722795.68    4131660.95        0.00055                      722818.67
4131651.11        0.00054
         722841.65    4131641.27        0.00053                      722864.63
4131631.43        0.00052
         722887.61    4131621.60        0.00051                      722910.60
4131611.76        0.00051
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                         ***       10:17:53

                                   PAGE 217
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     PAREA1      , AREA1
 , PAREA2      , PAREA3      , PAREA4      ,
                 PAREA5      , PAREA6      , PAREA7      , PAREA8      , PAREA9
 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
722933.58	4131601.92	0.00050	722956.56	4131592.08	0.00049
722979.55	4131582.24	0.00048	723002.53	4131572.41	0.00047
723025.51	4131562.57	0.00046	723048.50	4131552.73	0.00045
723071.48	4131542.89	0.00044	723094.46	4131533.06	0.00043
723117.44	4131523.22	0.00042	723140.43	4131513.38	0.00041
723163.41	4131503.54	0.00040	723186.39	4131493.71	0.00039
723209.38	4131483.87	0.00038	723232.36	4131474.03	0.00037
723255.34	4131464.19	0.00036	723278.33	4131454.35	0.00035
723260.99	4131463.95	0.00036	723238.01	4131473.79	0.00037
723215.03	4131483.62	0.00038	723192.04	4131493.46	0.00039
723169.06	4131503.30	0.00040	723146.08	4131513.14	0.00041
723123.10	4131522.98	0.00042	723100.11	4131532.81	0.00043
723077.13	4131542.65	0.00044	723054.15	4131552.49	0.00045
723031.16	4131562.33	0.00046	723008.18	4131572.16	0.00047
722985.20	4131582.00	0.00047	722962.21	4131591.84	0.00048
722939.23	4131601.68	0.00049	722916.25	4131611.51	0.00050
722893.27	4131621.35	0.00051	722870.28	4131631.19	0.00052
722847.30	4131641.03	0.00053	722824.32	4131650.87	0.00054
722801.33	4131660.70	0.00055	722778.35	4131670.54	0.00056
722755.37	4131680.38	0.00058	722732.38	4131690.22	0.00059
722709.40	4131700.05	0.00060	722686.42	4131709.89	0.00062
722663.43	4131719.73	0.00063	722640.45		

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4131729.57        0.00064
         722617.47    4131739.41        0.00065                        722594.49
4131749.24        0.00066
         722571.50    4131759.08        0.00067                        722548.52
4131768.92        0.00068
         722525.54    4131778.76        0.00070                        722502.55
4131788.59        0.00071
         722479.57    4131798.43        0.00073                        722456.59
4131808.27        0.00074
         722433.60    4131818.11        0.00076                        722410.62
4131827.95        0.00078
         722387.64    4131837.78        0.00079                        722364.66
4131847.62        0.00081
         722341.67    4131857.46        0.00083                        722318.69
4131867.30        0.00084
         722295.71    4131877.13        0.00086                        722272.72
4131886.97        0.00087
         722249.74    4131896.81        0.00089                        722226.76
4131906.65        0.00091
         722203.77    4131916.49        0.00092                        722180.79
4131926.32        0.00094
         722157.81    4131936.16        0.00096                        722134.83
4131946.00        0.00097
         722111.84    4131955.84        0.00099                        722088.86
4131965.67        0.00101
         722065.88    4131975.51        0.00102                        722042.89
4131985.35        0.00104
         722019.91    4131995.19        0.00106                        721996.93
4132005.02        0.00108
         721973.94    4132014.86        0.00109                        721950.96
4132024.70        0.00111
         721927.98    4132034.54        0.00113                        721905.00
4132044.38        0.00115
         721882.01    4132054.21        0.00117                        721859.03
4132064.05        0.00119
         722093.85    4131295.32        0.00287                        722116.79
4131285.39        0.00286
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 *** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9

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 , PAREA10     , PAREA11     , PAREA13     ,
                 PAREA12     , PAREA14     , PAREA15     , PAREA16     , PAREA17
 , PAREA18     , PAREA19     , PAREA20     ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF DPM      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         722139.74    4131275.46        0.00285                       722162.68
4131265.53        0.00285
         722185.62    4131255.59        0.00285                       722208.57
4131245.66        0.00285
         722231.51    4131235.73        0.00284                       722254.45
4131225.80        0.00285
         722277.39    4131215.87        0.00287                       722300.34
4131205.94        0.00290
         722323.28    4131196.00        0.00295                       722346.22
4131186.07        0.00306
         722369.16    4131176.14        0.00322                       722392.11
4131166.21        0.00347
         722415.05    4131156.28        0.00389                       722437.99
4131146.35        0.00463
         722460.93    4131136.42        0.00567                       722483.88
4131126.48        0.00688
         722506.82    4131116.55        0.00802                       722529.76
4131106.62        0.00883
         722552.71    4131096.69        0.00913                       722575.65
4131086.76        0.00885
         722598.59    4131076.83        0.00814                       722621.53
4131066.89        0.00721
         722644.48    4131056.96        0.00623                       722667.42
4131047.03        0.00531
         722690.36    4131037.10        0.00451                       722713.30
4131027.17        0.00384
         722736.25    4131017.24        0.00329                       722759.19
4131007.31        0.00283
         722771.12    4131056.62        0.00259                       722748.18
4131066.55        0.00306
         722725.24    4131076.49        0.00366                       722702.30
4131086.42        0.00446
         722679.35    4131096.35        0.00553                       722656.41
4131106.28        0.00699
         722633.47    4131116.21        0.00898                       722610.53
4131126.14        0.01165
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         722587.58    4131136.07        0.01502                      722564.64
4131146.01        0.01866
         722541.70    4131155.94        0.02131                      722518.76
4131165.87        0.02170
         722495.81    4131175.80        0.01986                      722472.87
4131185.73        0.01656
         722449.93    4131195.66        0.01230                      722426.99
4131205.60        0.00831
         722404.04    4131215.53        0.00601                      722381.10
4131225.46        0.00510
         722358.16    4131235.39        0.00468                      722335.21
4131245.32        0.00446
         722312.27    4131255.25        0.00435                      722289.33
4131265.18        0.00427
         722266.39    4131275.12        0.00422                      722243.44
4131285.05        0.00420
         722220.50    4131294.98        0.00416                      722197.56
4131304.91        0.00415
         722174.62    4131314.84        0.00414                      722151.67
4131324.77        0.00413
         722128.73    4131334.71        0.00415                      722148.89
4131034.56        0.00130
         722171.91    4131024.81        0.00130                      722194.93
4131015.07        0.00129
         722217.96    4131005.32        0.00129                      722240.98
4130995.57        0.00129
         722264.00    4130985.83        0.00129                      722287.02
4130976.08        0.00129
         722310.04    4130966.33        0.00130                      722333.06
4130956.59        0.00130
         722356.09    4130946.84        0.00131                      722379.11
4130937.09        0.00131
         722402.13    4130927.35        0.00133                      722417.99
4130974.93        0.00157
         722394.97    4130984.68        0.00153                      722371.95
4130994.42        0.00151
         722348.92    4131004.17        0.00150                      722325.90
4131013.92        0.00148
         722302.88    4131023.66        0.00147                      722279.86
4131033.41        0.00146
         722256.84    4131043.16        0.00145                      722233.82
4131052.90        0.00145
         722210.79    4131062.65        0.00145                      722187.77
4131072.39        0.00145
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***       01/02/24
 *** AERMET - VERSION  21112 ***   ***
                          ***      10:17:53

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*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): PAREA1 , AREA1 , PAREA2 , PAREA3 , PAREA4 , PAREA5 , PAREA6 , PAREA7 , PAREA8 , PAREA9 , PAREA10 , PAREA11 , PAREA13 , PAREA12 , PAREA14 , PAREA15 , PAREA16 , PAREA17 , PAREA18 , PAREA19 , PAREA20 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
721461.30	4131276.70	0.00135	721484.22	4131266.71	0.00137
721507.14	4131256.72	0.00138	721530.06	4131246.74	0.00139
721552.97	4131236.75	0.00140	721575.89	4131226.76	0.00140
721598.81	4131216.78	0.00140	721621.73	4131206.79	0.00140
721644.65	4131196.80	0.00140	721667.57	4131186.82	0.00139
721690.49	4131176.83	0.00139	721713.41	4131166.84	0.00138
721736.32	4131156.86	0.00137	721759.24	4131146.87	0.00136
721782.16	4131136.88	0.00135	721805.08	4131126.90	0.00133
721828.00	4131116.91	0.00132	721850.92	4131106.92	0.00131
721873.84	4131096.94	0.00130	721896.76	4131086.95	0.00129
721903.62	4131127.59	0.00139	721880.70	4131137.58	0.00140
721857.78	4131147.57	0.00142	721834.87	4131157.55	0.00143
721811.95	4131167.54	0.00145	721789.03	4131177.53	0.00147
721766.11	4131187.51	0.00148	721743.19	4131197.50	0.00150
721720.27	4131207.48	0.00152	721697.35		

4131217.47 0.00153
721674.43 4131227.46 0.00154 721651.52
4131237.44 0.00155
721628.60 4131247.43 0.00156 721605.68
4131257.42 0.00157
721582.76 4131267.40 0.00157 721559.84
4131277.39 0.00157
721536.92 4131287.38 0.00157 721514.00
4131297.36 0.00156
721491.08 4131307.35 0.00155 721412.42
4131178.31 0.00098
721435.37 4131168.40 0.00100 721458.32
4131158.48 0.00101
721481.27 4131148.57 0.00102 721504.22
4131138.66 0.00103
721527.17 4131128.74 0.00104 721550.13
4131118.83 0.00105
721573.08 4131108.92 0.00106 721596.03
4131099.00 0.00107
721618.98 4131089.09 0.00107 721641.93
4131079.18 0.00108
721664.88 4131069.26 0.00108 721687.83
4131059.35 0.00108
721710.78 4131049.44 0.00108 721733.73
4131039.52 0.00108
721756.68 4131029.61 0.00108 721779.63
4131019.70 0.00108
721802.58 4131009.78 0.00107 721825.53
4130999.87 0.00107
721848.48 4130989.95 0.00106 721871.43
4130980.04 0.00106
721894.38 4130970.13 0.00105 721917.33
4130960.21 0.00105
721940.28 4130950.30 0.00104 721963.23
4130940.39 0.00103
721986.18 4130930.47 0.00103 722009.13
4130920.56 0.00102
722032.08 4130910.65 0.00101 722055.03
4130900.73 0.00101
722077.99 4130890.82 0.00100 722100.94
4130880.91 0.00099
722123.89 4130870.99 0.00099 722146.84
4130861.08 0.00098
722169.79 4130851.17 0.00098 722192.74
4130841.25 0.00097
722215.69 4130831.34 0.00097 722238.64
4130821.43 0.00097
722261.59 4130811.51 0.00096 722284.54
4130801.60 0.00096
722307.49 4130791.68 0.00095 722330.44

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   PAREA1   , AREA1
 , PAREA2   , PAREA3   , PAREA4   ,
                 PAREA5   , PAREA6   , PAREA7   , PAREA8   , PAREA9
 , PAREA10   , PAREA11   , PAREA13   ,
                 PAREA12   , PAREA14   , PAREA15   , PAREA16   , PAREA17
 , PAREA18   , PAREA19   , PAREA20   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF DPM   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

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         721869.13    4131057.29        0.00121                      721846.18
4131067.20        0.00121
         721823.23    4131077.11        0.00122                      721800.28
4131087.03        0.00123
         721777.33    4131096.94        0.00124                      721754.38
4131106.85        0.00125
         721731.43    4131116.77        0.00126                      721708.48
4131126.68        0.00126
         721685.52    4131136.60        0.00127                      721662.57
4131146.51        0.00127
         721639.62    4131156.42        0.00127                      721616.67
4131166.34        0.00127
         721593.72    4131176.25        0.00126                      721570.77
4131186.16        0.00126
         721547.82    4131196.08        0.00125                      721524.87
4131205.99        0.00124
         721501.92    4131215.90        0.00123                      721478.97
4131225.82        0.00122
         721456.02    4131235.73        0.00120                      721024.56
4133243.02        0.00368
         720598.35    4133478.99        0.00666

 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                          ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                       ***        10:17:53

                                  PAGE 221
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43824
HRS) RESULTS ***


                                   ** CONC OF DPM      IN MICROGRAMS/M**3
              **


                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

MAIN      1ST HIGHEST VALUE IS       0.03124 AT (  721117.14,  4132065.52,
48.80,    48.80,    1.80)  GC  UCART1
          2ND HIGHEST VALUE IS       0.02882 AT (  721117.14,  4132090.52,
48.80,    48.80,    1.80)  GC  UCART1
          3RD HIGHEST VALUE IS       0.02866 AT (  721147.34,  4133048.24,
50.10,    50.10,    1.80)  GC  UCART2
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          4TH HIGHEST VALUE IS       0.02763 AT (  721117.14,  4132190.52,
48.80,    48.80,    1.80)  GC  UCART1
          5TH HIGHEST VALUE IS       0.02763 AT (  721117.14,  4132215.52,
48.80,    48.80,    1.80)  GC  UCART1
          6TH HIGHEST VALUE IS       0.02760 AT (  721117.14,  4132115.52,
48.80,    48.80,    1.80)  GC  UCART1
          7TH HIGHEST VALUE IS       0.02733 AT (  721117.14,  4132165.52,
48.80,    48.80,    1.80)  GC  UCART1
          8TH HIGHEST VALUE IS       0.02721 AT (  721117.14,  4132240.52,
48.80,    48.80,    1.80)  GC  UCART1
          9TH HIGHEST VALUE IS       0.02718 AT (  721117.14,  4132140.52,
48.80,    48.80,    1.80)  GC  UCART1
         10TH HIGHEST VALUE IS       0.02612 AT (  721197.34,  4133023.24,
50.20,    50.20,    1.80)  GC  UCART2

SOLAR     1ST HIGHEST VALUE IS       0.01675 AT (  719467.38,  4132841.48,
47.90,    47.90,    1.80)  GC  UCART3
          2ND HIGHEST VALUE IS       0.01592 AT (  719467.38,  4132816.48,
47.90,    47.90,    1.80)  GC  UCART3
          3RD HIGHEST VALUE IS       0.01563 AT (  719467.38,  4132866.48,
47.60,    47.60,    1.80)  GC  UCART3
          4TH HIGHEST VALUE IS       0.01398 AT (  719467.38,  4132791.48,
47.90,    47.90,    1.80)  GC  UCART3
          5TH HIGHEST VALUE IS       0.01304 AT (  719467.38,  4132891.48,
47.50,    47.50,    1.80)  GC  UCART3
          6TH HIGHEST VALUE IS       0.01153 AT (  719467.38,  4132766.48,
48.00,    48.00,    1.80)  GC  UCART3
          7TH HIGHEST VALUE IS       0.01125 AT (  719442.38,  4132866.48,
47.60,    47.60,    1.80)  GC  UCART3
          8TH HIGHEST VALUE IS       0.01119 AT (  719442.38,  4132841.48,
47.70,    47.70,    1.80)  GC  UCART3
          9TH HIGHEST VALUE IS       0.01030 AT (  719442.38,  4132891.48,
47.50,    47.50,    1.80)  GC  UCART3
         10TH HIGHEST VALUE IS       0.01027 AT (  719467.38,  4132916.48,
47.50,    47.50,    1.80)  GC  UCART3

ALL       1ST HIGHEST VALUE IS       0.03173 AT (  721117.14,  4132065.52,
48.80,    48.80,    1.80)  GC  UCART1
          2ND HIGHEST VALUE IS       0.02929 AT (  721117.14,  4132090.52,
48.80,    48.80,    1.80)  GC  UCART1
          3RD HIGHEST VALUE IS       0.02879 AT (  721147.34,  4133048.24,
50.10,    50.10,    1.80)  GC  UCART2
          4TH HIGHEST VALUE IS       0.02806 AT (  721117.14,  4132115.52,
48.80,    48.80,    1.80)  GC  UCART1
          5TH HIGHEST VALUE IS       0.02803 AT (  721117.14,  4132190.52,
48.80,    48.80,    1.80)  GC  UCART1
          6TH HIGHEST VALUE IS       0.02801 AT (  721117.14,  4132215.52,
48.80,    48.80,    1.80)  GC  UCART1
          7TH HIGHEST VALUE IS       0.02775 AT (  721117.14,  4132165.52,
48.80,    48.80,    1.80)  GC  UCART1
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          8TH HIGHEST VALUE IS       0.02761 AT (  721117.14,  4132140.52,
48.80,    48.80,    1.80)  GC  UCART1
          9TH HIGHEST VALUE IS       0.02757 AT (  721117.14,  4132240.52,
48.80,    48.80,    1.80)  GC  UCART1
         10TH HIGHEST VALUE IS       0.02644 AT (  721117.14,  4132265.52,
48.80,    48.80,    1.80)  GC  UCART1


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** MITC CONSTRUCTION HRA (NO SOLAR)
                           ***        01/02/24
 *** AERMET - VERSION  21112 ***   ***
                           ***       10:17:53

                                     PAGE 222
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            3 Warning Message(s)
 A Total of         1280 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          592 Calm Hours Identified

 A Total of          688 Missing Hours Identified (  1.57 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 SO W320      88        APARM: Input Parameter May Be Out-of-Range for Parameter
       QS
 ME W186    4093       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    4093       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
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* AERMOD (23132 ): MITC CONSTRUCTION HRA (NO SOLAR)
       01/02/24
* AERMET ( 21112):
       10:17:53
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP:
SOLAR
*         FOR A TOTAL OF  4636 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE
GRP      NUM HRS   NET ID
* _____________  _____________  _____________   _______   _______   _______  _______
_________  _________  _________
  721117.14000 4132065.52000       0.00049    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721142.14000 4132065.52000       0.00044    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721167.14000 4132065.52000       0.00040    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721192.14000 4132065.52000       0.00036    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721217.14000 4132065.52000       0.00033    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132065.52000       0.00031    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721267.14000 4132065.52000       0.00029    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721292.14000 4132065.52000       0.00027    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721317.14000 4132065.52000       0.00025    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721342.14000 4132065.52000       0.00023    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132065.52000       0.00022    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132065.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132065.52000       0.00019    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721442.14000 4132065.52000       0.00018    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721467.14000 4132065.52000       0.00017    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721492.14000 4132065.52000       0.00016    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721517.14000 4132065.52000       0.00016    49.50    49.50     1.80  PERIOD
SOLAR     00043824  UCART1
  721542.14000 4132065.52000       0.00015    49.90    49.90     1.80  PERIOD
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SOLAR     00043824  UCART1
  721567.14000 4132065.52000       0.00014    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721592.14000 4132065.52000       0.00014    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721617.14000 4132065.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721642.14000 4132065.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721667.14000 4132065.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721692.14000 4132065.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721717.14000 4132065.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721742.14000 4132065.52000       0.00011    50.40    50.40     1.80  PERIOD
SOLAR     00043824  UCART1
  721767.14000 4132065.52000       0.00011    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721792.14000 4132065.52000       0.00010    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721817.14000 4132065.52000       0.00010    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721842.14000 4132065.52000       0.00010    50.60    50.60     1.80  PERIOD
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  721117.14000 4132090.52000       0.00047    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART1
  721167.14000 4132090.52000       0.00039    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721192.14000 4132090.52000       0.00035    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721217.14000 4132090.52000       0.00032    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132090.52000       0.00030    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721267.14000 4132090.52000       0.00028    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721292.14000 4132090.52000       0.00026    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721317.14000 4132090.52000       0.00024    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721342.14000 4132090.52000       0.00022    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132090.52000       0.00021    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132090.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132090.52000       0.00019    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART1
  721442.14000 4132090.52000       0.00018    48.80    48.80     1.80  PERIOD
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  721467.14000 4132090.52000       0.00017    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721492.14000 4132090.52000       0.00016    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721517.14000 4132090.52000       0.00015    49.50    49.50     1.80  PERIOD
SOLAR     00043824  UCART1
  721542.14000 4132090.52000       0.00015    49.90    49.90     1.80  PERIOD
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  721567.14000 4132090.52000       0.00014    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721592.14000 4132090.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721617.14000 4132090.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721642.14000 4132090.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721667.14000 4132090.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721692.14000 4132090.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721717.14000 4132090.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721742.14000 4132090.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721767.14000 4132090.52000       0.00010    50.40    50.40     1.80  PERIOD
SOLAR     00043824  UCART1
  721792.14000 4132090.52000       0.00010    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721817.14000 4132090.52000       0.00010    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721842.14000 4132090.52000       0.00010    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721117.14000 4132115.52000       0.00045    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721142.14000 4132115.52000       0.00041    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721167.14000 4132115.52000       0.00037    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721192.14000 4132115.52000       0.00034    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721217.14000 4132115.52000       0.00031    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132115.52000       0.00029    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721267.14000 4132115.52000       0.00027    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721292.14000 4132115.52000       0.00025    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART1
  721317.14000 4132115.52000       0.00023    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721342.14000 4132115.52000       0.00022    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132115.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132115.52000       0.00019    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132115.52000       0.00018    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721442.14000 4132115.52000       0.00017    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721467.14000 4132115.52000       0.00016    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721492.14000 4132115.52000       0.00016    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721517.14000 4132115.52000       0.00015    49.60    49.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721542.14000 4132115.52000       0.00014    49.90    49.90     1.80  PERIOD
SOLAR     00043824  UCART1
  721567.14000 4132115.52000       0.00014    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721592.14000 4132115.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721617.14000 4132115.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721667.14000 4132115.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721692.14000 4132115.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721717.14000 4132115.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721742.14000 4132115.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721767.14000 4132115.52000       0.00010    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721792.14000 4132115.52000       0.00010    50.40    50.40     1.80  PERIOD
SOLAR     00043824  UCART1
  721817.14000 4132115.52000       0.00010    50.50    50.50     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721142.14000 4132140.52000       0.00039    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
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  721192.14000 4132140.52000       0.00033    48.80    48.80     1.80  PERIOD
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  721217.14000 4132140.52000       0.00030    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132140.52000       0.00028    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721267.14000 4132140.52000       0.00026    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721292.14000 4132140.52000       0.00024    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721342.14000 4132140.52000       0.00021    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132140.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132140.52000       0.00019    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132140.52000       0.00018    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721442.14000 4132140.52000       0.00017    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721467.14000 4132140.52000       0.00016    49.00    49.00     1.80  PERIOD
SOLAR     00043824  UCART1
  721492.14000 4132140.52000       0.00015    49.40    49.40     1.80  PERIOD
SOLAR     00043824  UCART1
  721517.14000 4132140.52000       0.00015    49.60    49.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721542.14000 4132140.52000       0.00014    49.90    49.90     1.80  PERIOD
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SOLAR     00043824  UCART1
  721592.14000 4132140.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721667.14000 4132140.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721742.14000 4132140.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721767.14000 4132140.52000       0.00010    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721792.14000 4132140.52000       0.00010    50.30    50.30     1.80  PERIOD
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721167.14000 4132165.52000       0.00034    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721192.14000 4132165.52000       0.00032    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721217.14000 4132165.52000       0.00029    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132165.52000       0.00027    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721292.14000 4132165.52000       0.00023    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721317.14000 4132165.52000       0.00022    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721342.14000 4132165.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132165.52000       0.00019    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132165.52000       0.00018    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132165.52000       0.00017    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721442.14000 4132165.52000       0.00016    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721467.14000 4132165.52000       0.00016    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART1
  721492.14000 4132165.52000       0.00015    49.40    49.40     1.80  PERIOD
SOLAR     00043824  UCART1
  721517.14000 4132165.52000       0.00014    49.60    49.60     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721592.14000 4132165.52000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721642.14000 4132165.52000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721667.14000 4132165.52000       0.00011    50.30    50.30     1.80  PERIOD
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SOLAR     00043824  UCART1
  721692.14000 4132165.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721717.14000 4132165.52000       0.00011    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721742.14000 4132165.52000       0.00010    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721767.14000 4132165.52000       0.00010    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721792.14000 4132165.52000       0.00010    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART1
  721817.14000 4132165.52000       0.00010    50.50    50.50     1.80  PERIOD
SOLAR     00043824  UCART1
  721842.14000 4132165.52000       0.00009    50.60    50.60     1.80  PERIOD
SOLAR     00043824  UCART1
  721117.14000 4132190.52000       0.00040    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721142.14000 4132190.52000       0.00036    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721167.14000 4132190.52000       0.00033    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721192.14000 4132190.52000       0.00030    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721217.14000 4132190.52000       0.00028    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721242.14000 4132190.52000       0.00026    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721267.14000 4132190.52000       0.00024    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721292.14000 4132190.52000       0.00023    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721317.14000 4132190.52000       0.00021    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721342.14000 4132190.52000       0.00020    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721367.14000 4132190.52000       0.00019    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721392.14000 4132190.52000       0.00018    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721417.14000 4132190.52000       0.00017    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
  721442.14000 4132190.52000       0.00016    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721492.14000 4132190.52000       0.00015    49.40    49.40     1.80  PERIOD
SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
  721542.14000 4132190.52000       0.00014    49.90    49.90     1.80  PERIOD
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART1
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721297.34000 4132648.24000       0.00018    49.30    49.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721622.34000 4132648.24000       0.00012    50.70    50.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721122.34000 4132673.24000       0.00024    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721147.34000 4132673.24000       0.00022    49.10    49.10     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721447.34000 4132748.24000       0.00014    50.10    50.10     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721522.34000 4132773.24000       0.00012    50.30    50.30     1.80  PERIOD
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  721547.34000 4132773.24000       0.00012    50.40    50.40     1.80  PERIOD
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  721572.34000 4132773.24000       0.00012    50.50    50.50     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4132773.24000       0.00012    50.70    50.70     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721622.34000 4132798.24000       0.00011    51.00    51.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721122.34000 4132823.24000       0.00019    49.30    49.30     1.80  PERIOD
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SOLAR     00043824  UCART2
  721172.34000 4132823.24000       0.00018    49.40    49.40     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721322.34000 4132823.24000       0.00015    50.00    50.00     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721472.34000 4132823.24000       0.00013    50.30    50.30     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721572.34000 4132823.24000       0.00012    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721197.34000 4132848.24000       0.00017    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721222.34000 4132848.24000       0.00016    49.70    49.70     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721372.34000 4132898.24000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART2
  721397.34000 4132898.24000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721347.34000 4132923.24000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721397.34000 4132923.24000       0.00013    50.30    50.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721472.34000 4132923.24000       0.00012    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721497.34000 4132923.24000       0.00012    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721522.34000 4132923.24000       0.00011    50.10    50.10     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721597.34000 4132923.24000       0.00011    50.20    50.20     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721522.34000 4132948.24000       0.00011    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721622.34000 4132948.24000       0.00010    50.00    50.00     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721522.34000 4132973.24000       0.00011    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721547.34000 4132973.24000       0.00011    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721572.34000 4132973.24000       0.00011    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4132973.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721622.34000 4132973.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721147.34000 4132998.24000       0.00015    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721197.34000 4132998.24000       0.00014    48.90    48.90     1.80  PERIOD
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  721372.34000 4132998.24000       0.00012    49.00    49.00     1.80  PERIOD
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SOLAR     00043824  UCART2
  721572.34000 4132998.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721197.34000 4133023.24000       0.00014    50.20    50.20     1.80  PERIOD
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  721222.34000 4133023.24000       0.00013    50.20    50.20     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721297.34000 4133023.24000       0.00012    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721372.34000 4133023.24000       0.00012    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721397.34000 4133023.24000       0.00012    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721472.34000 4133023.24000       0.00011    49.20    49.20     1.80  PERIOD
SOLAR     00043824  UCART2
  721497.34000 4133023.24000       0.00011    49.70    49.70     1.80  PERIOD
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SOLAR     00043824  UCART2
  721547.34000 4133023.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721572.34000 4133023.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4133023.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721622.34000 4133023.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721147.34000 4133048.24000       0.00014    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721172.34000 4133048.24000       0.00013    50.20    50.20     1.80  PERIOD
SOLAR     00043824  UCART2
  721197.34000 4133048.24000       0.00013    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721222.34000 4133048.24000       0.00013    50.10    50.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721247.34000 4133048.24000       0.00013    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721272.34000 4133048.24000       0.00012    49.20    49.20     1.80  PERIOD
SOLAR     00043824  UCART2
  721297.34000 4133048.24000       0.00012    48.90    48.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721322.34000 4133048.24000       0.00012    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721347.34000 4133048.24000       0.00012    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721372.34000 4133048.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721397.34000 4133048.24000       0.00011    48.80    48.80     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721472.34000 4133048.24000       0.00011    49.20    49.20     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721547.34000 4133048.24000       0.00010    49.80    49.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721572.34000 4133048.24000       0.00010    49.90    49.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4133048.24000       0.00010    50.00    50.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721622.34000 4133048.24000       0.00010    49.90    49.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721122.34000 4133073.24000       0.00014    50.20    50.20     1.80  PERIOD
SOLAR     00043824  UCART2
  721147.34000 4133073.24000       0.00013    50.20    50.20     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721372.34000 4133073.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721397.34000 4133073.24000       0.00011    48.90    48.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721422.34000 4133073.24000       0.00011    49.00    49.00     1.80  PERIOD
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  721472.34000 4133073.24000       0.00010    49.30    49.30     1.80  PERIOD
SOLAR     00043824  UCART2
  721497.34000 4133073.24000       0.00010    49.60    49.60     1.80  PERIOD
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721347.34000 4133098.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721422.34000 4133098.24000       0.00011    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721472.34000 4133098.24000       0.00010    49.40    49.40     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721547.34000 4133098.24000       0.00010    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721572.34000 4133098.24000       0.00010    49.90    49.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4133098.24000       0.00009    49.80    49.80     1.80  PERIOD
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SOLAR     00043824  UCART2
  721147.34000 4133123.24000       0.00013    49.90    49.90     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721197.34000 4133123.24000       0.00012    49.60    49.60     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721297.34000 4133123.24000       0.00011    48.90    48.90     1.80  PERIOD
SOLAR     00043824  UCART2
  721322.34000 4133123.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721347.34000 4133123.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721397.34000 4133123.24000       0.00011    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721422.34000 4133123.24000       0.00010    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721447.34000 4133123.24000       0.00010    49.30    49.30     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721597.34000 4133123.24000       0.00009    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721147.34000 4133148.24000       0.00012    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721172.34000 4133148.24000       0.00012    49.60    49.60     1.80  PERIOD
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  721197.34000 4133148.24000       0.00012    49.30    49.30     1.80  PERIOD
SOLAR     00043824  UCART2
  721222.34000 4133148.24000       0.00012    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721247.34000 4133148.24000       0.00011    49.00    49.00     1.80  PERIOD
SOLAR     00043824  UCART2
  721272.34000 4133148.24000       0.00011    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721297.34000 4133148.24000       0.00011    48.90    48.90     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721347.34000 4133148.24000       0.00011    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
  721372.34000 4133148.24000       0.00010    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721447.34000 4133148.24000       0.00010    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART2
  721472.34000 4133148.24000       0.00010    49.20    49.20     1.80  PERIOD
SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
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SOLAR     00043824  UCART2
  721547.34000 4133148.24000       0.00009    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721572.34000 4133148.24000       0.00009    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
  721597.34000 4133148.24000       0.00009    49.70    49.70     1.80  PERIOD
SOLAR     00043824  UCART2
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  718942.38000 4132691.48000       0.00013    47.00    47.00     1.80  PERIOD
SOLAR     00043824  UCART3
  718967.38000 4132691.48000       0.00014    47.20    47.20     1.80  PERIOD
SOLAR     00043824  UCART3
  718992.38000 4132691.48000       0.00015    47.20    47.20     1.80  PERIOD
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART3
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART4
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
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  720836.78000 4131492.21000       0.00039    49.00    49.00     1.80  PERIOD
SOLAR     00043824  UCART5
  720861.78000 4131492.21000       0.00039    49.10    49.10     1.80  PERIOD
SOLAR     00043824  UCART5
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SOLAR     00043824  UCART5
  720761.78000 4131517.21000       0.00041    49.00    49.00     1.80  PERIOD
SOLAR     00043824  UCART5
  720786.78000 4131517.21000       0.00040    49.10    49.10     1.80  PERIOD
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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  721341.49000 4131224.06000       0.00027    48.50    48.50     1.80  PERIOD
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
  721216.49000 4131284.06000       0.00030    48.80    48.80     1.80  PERIOD
SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824  UCART6
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SOLAR     00043824
  721582.76000 4131267.40000       0.00022    49.79    49.79     0.00  PERIOD
SOLAR     00043824
  721559.84000 4131277.39000       0.00022    49.60    49.60     0.00  PERIOD
SOLAR     00043824
  721536.92000 4131287.38000       0.00023    49.56    49.56     0.00  PERIOD
SOLAR     00043824
  721514.00000 4131297.36000       0.00024    49.76    49.76     0.00  PERIOD
SOLAR     00043824
  721491.08000 4131307.35000       0.00024    50.06    50.06     0.00  PERIOD
SOLAR     00043824
  721412.42000 4131178.31000       0.00025    48.42    48.42     0.00  PERIOD
SOLAR     00043824
  721435.37000 4131168.40000       0.00025    48.19    48.19     0.00  PERIOD
SOLAR     00043824
  721458.32000 4131158.48000       0.00024    48.16    48.16     0.00  PERIOD
SOLAR     00043824
  721481.27000 4131148.57000       0.00024    48.16    48.16     0.00  PERIOD
SOLAR     00043824
  721504.22000 4131138.66000       0.00023    48.26    48.26     0.00  PERIOD
SOLAR     00043824
  721527.17000 4131128.74000       0.00023    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721550.13000 4131118.83000       0.00022    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721573.08000 4131108.92000       0.00022    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721596.03000 4131099.00000       0.00021    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721618.98000 4131089.09000       0.00021    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721641.93000 4131079.18000       0.00020    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721664.88000 4131069.26000       0.00020    48.45    48.45     0.00  PERIOD
SOLAR     00043824
  721687.83000 4131059.35000       0.00019    48.32    48.32     0.00  PERIOD
SOLAR     00043824
  721710.78000 4131049.44000       0.00019    48.17    48.17     0.00  PERIOD
SOLAR     00043824
  721733.73000 4131039.52000       0.00019    48.16    48.16     0.00  PERIOD
SOLAR     00043824
  721756.68000 4131029.61000       0.00018    48.38    48.38     0.00  PERIOD
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SOLAR     00043824
  721779.63000 4131019.70000       0.00018    48.55    48.55     0.00  PERIOD
SOLAR     00043824
  721802.58000 4131009.78000       0.00017    48.86    48.86     0.00  PERIOD
SOLAR     00043824
  721825.53000 4130999.87000       0.00017    49.09    49.09     0.00  PERIOD
SOLAR     00043824
  721848.48000 4130989.95000       0.00017    49.32    49.32     0.00  PERIOD
SOLAR     00043824
  721871.43000 4130980.04000       0.00016    49.36    49.36     0.00  PERIOD
SOLAR     00043824
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SOLAR     00043824
  721917.33000 4130960.21000       0.00016    49.91    49.91     0.00  PERIOD
SOLAR     00043824
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SOLAR     00043824
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SOLAR     00043824
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SOLAR     00043824
  722009.13000 4130920.56000       0.00014    49.82    49.82     0.00  PERIOD
SOLAR     00043824
  722032.08000 4130910.65000       0.00014    50.26    50.26     0.00  PERIOD
SOLAR     00043824
  722055.03000 4130900.73000       0.00014    50.33    50.33     0.00  PERIOD
SOLAR     00043824
  722077.99000 4130890.82000       0.00014    50.58    50.58     0.00  PERIOD
SOLAR     00043824
  722100.94000 4130880.91000       0.00013    50.90    50.90     0.00  PERIOD
SOLAR     00043824
  722123.89000 4130870.99000       0.00013    50.90    50.90     0.00  PERIOD
SOLAR     00043824
  722146.84000 4130861.08000       0.00013    51.09    51.09     0.00  PERIOD
SOLAR     00043824
  722169.79000 4130851.17000       0.00013    51.23    51.23     0.00  PERIOD
SOLAR     00043824
  722192.74000 4130841.25000       0.00012    51.27    51.27     0.00  PERIOD
SOLAR     00043824
  722215.69000 4130831.34000       0.00012    51.19    51.19     0.00  PERIOD
SOLAR     00043824
  722238.64000 4130821.43000       0.00012    51.32    51.32     0.00  PERIOD
SOLAR     00043824
  722261.59000 4130811.51000       0.00012    51.45    51.45     0.00  PERIOD
SOLAR     00043824
  722284.54000 4130801.60000       0.00012    51.48    51.48     0.00  PERIOD
SOLAR     00043824
  722307.49000 4130791.68000       0.00011    51.40    51.40     0.00  PERIOD
SOLAR     00043824
  722330.44000 4130781.77000       0.00011    51.34    51.34     0.00  PERIOD
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SOLAR     00043824
  722374.04000 4130839.19000       0.00011    52.16    52.16     0.00  PERIOD
SOLAR     00043824
  722351.09000 4130849.10000       0.00011    52.26    52.26     0.00  PERIOD
SOLAR     00043824
  722328.14000 4130859.02000       0.00011    52.31    52.31     0.00  PERIOD
SOLAR     00043824
  722305.19000 4130868.93000       0.00011    52.17    52.17     0.00  PERIOD
SOLAR     00043824
  722282.24000 4130878.84000       0.00011    52.04    52.04     0.00  PERIOD
SOLAR     00043824
  722259.29000 4130888.76000       0.00012    51.91    51.91     0.00  PERIOD
SOLAR     00043824
  722236.34000 4130898.67000       0.00012    51.84    51.84     0.00  PERIOD
SOLAR     00043824
  722213.38000 4130908.58000       0.00012    51.82    51.82     0.00  PERIOD
SOLAR     00043824
  722190.43000 4130918.50000       0.00012    51.82    51.82     0.00  PERIOD
SOLAR     00043824
  722167.48000 4130928.41000       0.00012    51.68    51.68     0.00  PERIOD
SOLAR     00043824
  722144.53000 4130938.33000       0.00013    51.55    51.55     0.00  PERIOD
SOLAR     00043824
  722121.58000 4130948.24000       0.00013    51.42    51.42     0.00  PERIOD
SOLAR     00043824
  722098.63000 4130958.15000       0.00013    51.25    51.25     0.00  PERIOD
SOLAR     00043824
  722075.68000 4130968.07000       0.00013    50.83    50.83     0.00  PERIOD
SOLAR     00043824
  722052.73000 4130977.98000       0.00014    50.57    50.57     0.00  PERIOD
SOLAR     00043824
  722029.78000 4130987.89000       0.00014    50.55    50.55     0.00  PERIOD
SOLAR     00043824
  722006.83000 4130997.81000       0.00014    50.32    50.32     0.00  PERIOD
SOLAR     00043824
  721983.88000 4131007.72000       0.00015    50.29    50.29     0.00  PERIOD
SOLAR     00043824
  721960.93000 4131017.63000       0.00015    50.31    50.31     0.00  PERIOD
SOLAR     00043824
  721937.98000 4131027.55000       0.00015    50.22    50.22     0.00  PERIOD
SOLAR     00043824
  721915.03000 4131037.46000       0.00015    50.15    50.15     0.00  PERIOD
SOLAR     00043824
  721892.08000 4131047.37000       0.00016    50.31    50.31     0.00  PERIOD
SOLAR     00043824
  721869.13000 4131057.29000       0.00016    50.11    50.11     0.00  PERIOD
SOLAR     00043824
  721846.18000 4131067.20000       0.00017    50.00    50.00     0.00  PERIOD
SOLAR     00043824
  721823.23000 4131077.11000       0.00017    49.70    49.70     0.00  PERIOD
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SOLAR     00043824
  721800.28000 4131087.03000       0.00017    49.56    49.56     0.00  PERIOD
SOLAR     00043824
  721777.33000 4131096.94000       0.00018    49.26    49.26     0.00  PERIOD
SOLAR     00043824
  721754.38000 4131106.85000       0.00018    48.90    48.90     0.00  PERIOD
SOLAR     00043824
  721731.43000 4131116.77000       0.00019    48.67    48.67     0.00  PERIOD
SOLAR     00043824
  721708.48000 4131126.68000       0.00019    48.46    48.46     0.00  PERIOD
SOLAR     00043824
  721685.52000 4131136.60000       0.00019    48.29    48.29     0.00  PERIOD
SOLAR     00043824
  721662.57000 4131146.51000       0.00020    48.30    48.30     0.00  PERIOD
SOLAR     00043824
  721639.62000 4131156.42000       0.00020    48.26    48.26     0.00  PERIOD
SOLAR     00043824
  721616.67000 4131166.34000       0.00021    48.17    48.17     0.00  PERIOD
SOLAR     00043824
  721593.72000 4131176.25000       0.00021    48.32    48.32     0.00  PERIOD
SOLAR     00043824
  721570.77000 4131186.16000       0.00022    48.25    48.25     0.00  PERIOD
SOLAR     00043824
  721547.82000 4131196.08000       0.00023    48.17    48.17     0.00  PERIOD
SOLAR     00043824
  721524.87000 4131205.99000       0.00023    48.27    48.27     0.00  PERIOD
SOLAR     00043824
  721501.92000 4131215.90000       0.00024    48.37    48.37     0.00  PERIOD
SOLAR     00043824
  721478.97000 4131225.82000       0.00024    48.47    48.47     0.00  PERIOD
SOLAR     00043824
  721456.02000 4131235.73000       0.00025    48.57    48.57     0.00  PERIOD
SOLAR     00043824
  721024.56000 4133243.02000       0.00013    49.23    49.23     0.00  PERIOD
SOLAR     00043824
  720598.35000 4133478.99000       0.00013    48.87    48.87     0.00  PERIOD
SOLAR     00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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* AERMOD (23132 ): MITC CONSTRUCTION HRA (NO SOLAR)
       01/02/24
* AERMET ( 21112):
       10:17:53
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP:
MAIN
*         FOR A TOTAL OF  4636 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE
GRP      NUM HRS   NET ID
* _____________  _____________  _____________   _______   _______   _______  _______
_________  _________  _________
  721117.14000 4132065.52000       0.03124    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721142.14000 4132065.52000       0.02111    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721167.14000 4132065.52000       0.01548    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721192.14000 4132065.52000       0.01199    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721217.14000 4132065.52000       0.00963    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721242.14000 4132065.52000       0.00790    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721267.14000 4132065.52000       0.00660    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721292.14000 4132065.52000       0.00558    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721317.14000 4132065.52000       0.00478    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721342.14000 4132065.52000       0.00414    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721367.14000 4132065.52000       0.00363    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721392.14000 4132065.52000       0.00321    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721417.14000 4132065.52000       0.00287    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721442.14000 4132065.52000       0.00260    48.80    48.80     1.80  PERIOD  MAIN
     00043824  UCART1
  721467.14000 4132065.52000       0.00236    49.10    49.10     1.80  PERIOD  MAIN
     00043824  UCART1
  721492.14000 4132065.52000       0.00217    49.10    49.10     1.80  PERIOD  MAIN
     00043824  UCART1
  721517.14000 4132065.52000       0.00200    49.50    49.50     1.80  PERIOD  MAIN
     00043824  UCART1
  721542.14000 4132065.52000       0.00186    49.90    49.90     1.80  PERIOD  MAIN
```

00043824 UCART1
721567.14000 4132065.52000 0.00174 50.10 50.10 1.80 PERIOD MAIN
00043824 UCART1
721592.14000 4132065.52000 0.00164 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721617.14000 4132065.52000 0.00155 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721642.14000 4132065.52000 0.00148 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721667.14000 4132065.52000 0.00141 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721692.14000 4132065.52000 0.00135 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721717.14000 4132065.52000 0.00130 50.30 50.30 1.80 PERIOD MAIN
00043824 UCART1
721742.14000 4132065.52000 0.00125 50.40 50.40 1.80 PERIOD MAIN
00043824 UCART1
721767.14000 4132065.52000 0.00121 50.60 50.60 1.80 PERIOD MAIN
00043824 UCART1
721792.14000 4132065.52000 0.00117 50.60 50.60 1.80 PERIOD MAIN
00043824 UCART1
721817.14000 4132065.52000 0.00114 50.60 50.60 1.80 PERIOD MAIN
00043824 UCART1
721842.14000 4132065.52000 0.00110 50.60 50.60 1.80 PERIOD MAIN
00043824 UCART1
721117.14000 4132090.52000 0.02882 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721142.14000 4132090.52000 0.02001 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721167.14000 4132090.52000 0.01487 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721192.14000 4132090.52000 0.01157 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721217.14000 4132090.52000 0.00926 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721242.14000 4132090.52000 0.00757 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721267.14000 4132090.52000 0.00628 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721292.14000 4132090.52000 0.00529 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721317.14000 4132090.52000 0.00451 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721342.14000 4132090.52000 0.00390 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721367.14000 4132090.52000 0.00341 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721392.14000 4132090.52000 0.00302 48.80 48.80 1.80 PERIOD MAIN
00043824 UCART1
721417.14000 4132090.52000 0.00271 48.80 48.80 1.80 PERIOD MAIN

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   00043824  UCART1
721442.14000 4132090.52000       0.00245    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721467.14000 4132090.52000       0.00223    49.10    49.10     1.80  PERIOD  MAIN
   00043824  UCART1
721492.14000 4132090.52000       0.00206    49.10    49.10     1.80  PERIOD  MAIN
   00043824  UCART1
721517.14000 4132090.52000       0.00190    49.50    49.50     1.80  PERIOD  MAIN
   00043824  UCART1
721542.14000 4132090.52000       0.00177    49.90    49.90     1.80  PERIOD  MAIN
   00043824  UCART1
721567.14000 4132090.52000       0.00166    50.10    50.10     1.80  PERIOD  MAIN
   00043824  UCART1
721592.14000 4132090.52000       0.00157    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721617.14000 4132090.52000       0.00149    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721642.14000 4132090.52000       0.00143    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721667.14000 4132090.52000       0.00137    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721692.14000 4132090.52000       0.00131    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721717.14000 4132090.52000       0.00126    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721742.14000 4132090.52000       0.00122    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721767.14000 4132090.52000       0.00118    50.40    50.40     1.80  PERIOD  MAIN
   00043824  UCART1
721792.14000 4132090.52000       0.00114    50.60    50.60     1.80  PERIOD  MAIN
   00043824  UCART1
721817.14000 4132090.52000       0.00111    50.60    50.60     1.80  PERIOD  MAIN
   00043824  UCART1
721842.14000 4132090.52000       0.00108    50.60    50.60     1.80  PERIOD  MAIN
   00043824  UCART1
721117.14000 4132115.52000       0.02760    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721142.14000 4132115.52000       0.01946    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721167.14000 4132115.52000       0.01452    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721192.14000 4132115.52000       0.01125    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721217.14000 4132115.52000       0.00894    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721242.14000 4132115.52000       0.00724    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721267.14000 4132115.52000       0.00597    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721292.14000 4132115.52000       0.00500    48.80    48.80     1.80  PERIOD  MAIN
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   00043824  UCART1
721317.14000 4132115.52000       0.00425    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721342.14000 4132115.52000       0.00367    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721367.14000 4132115.52000       0.00321    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721392.14000 4132115.52000       0.00285    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721417.14000 4132115.52000       0.00256    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721442.14000 4132115.52000       0.00232    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721467.14000 4132115.52000       0.00212    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART1
721492.14000 4132115.52000       0.00196    49.10    49.10     1.80  PERIOD  MAIN
   00043824  UCART1
721517.14000 4132115.52000       0.00181    49.60    49.60     1.80  PERIOD  MAIN
   00043824  UCART1
721542.14000 4132115.52000       0.00170    49.90    49.90     1.80  PERIOD  MAIN
   00043824  UCART1
721567.14000 4132115.52000       0.00160    50.10    50.10     1.80  PERIOD  MAIN
   00043824  UCART1
721592.14000 4132115.52000       0.00151    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721617.14000 4132115.52000       0.00144    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721642.14000 4132115.52000       0.00138    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721667.14000 4132115.52000       0.00132    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721692.14000 4132115.52000       0.00128    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721717.14000 4132115.52000       0.00123    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721742.14000 4132115.52000       0.00119    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
721767.14000 4132115.52000       0.00116    50.30    50.30     1.80  PERIOD  MAIN
   00043824  UCART1
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721542.14000 4132190.52000       0.00153    49.90    49.90     1.80  PERIOD  MAIN
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721167.14000 4132265.52000 0.01107 48.80 48.80 1.80 PERIOD MAIN

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721667.14000 4132415.52000       0.00129    50.30    50.30     1.80  PERIOD  MAIN
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721417.14000 4132465.52000       0.00162    49.20    49.20     1.80  PERIOD  MAIN
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721467.14000 4132465.52000       0.00153    49.60    49.60     1.80  PERIOD  MAIN
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721292.14000 4132490.52000       0.00194    48.80    48.80     1.80  PERIOD  MAIN
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   00043824  UCART1
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721692.14000 4132515.52000       0.00151    50.30    50.30     1.80  PERIOD  MAIN
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721792.14000 4132515.52000       0.00158    50.60    50.60     1.80  PERIOD  MAIN
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00043824 UCART1
721667.14000 4132540.52000 0.00160 50.30 50.30 1.80 PERIOD MAIN

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721717.14000 4132540.52000       0.00164    50.30    50.30     1.80  PERIOD  MAIN
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721542.14000 4132565.52000       0.00165    50.30    50.30     1.80  PERIOD  MAIN
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721617.14000 4132565.52000       0.00167    50.60    50.60     1.80  PERIOD  MAIN
   00043824  UCART1
721642.14000 4132565.52000       0.00169    50.50    50.50     1.80  PERIOD  MAIN
   00043824  UCART1
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721167.14000 4132640.52000       0.00205    49.10    49.10     1.80  PERIOD  MAIN
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   00043824  UCART2
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721147.34000 4132673.24000       0.00204    49.10    49.10     1.80  PERIOD  MAIN
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721197.34000 4132698.24000       0.00208    49.40    49.40     1.80  PERIOD  MAIN
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721297.34000 4132723.24000       0.00226    49.50    49.50     1.80  PERIOD  MAIN
   00043824  UCART2
721322.34000 4132723.24000       0.00229    49.50    49.50     1.80  PERIOD  MAIN
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721347.34000 4132723.24000       0.00231    49.70    49.70     1.80  PERIOD  MAIN
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721547.34000 4132948.24000       0.00281    50.10    50.10     1.80  PERIOD  MAIN
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721572.34000 4132948.24000       0.00247    50.20    50.20     1.80  PERIOD  MAIN
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721622.34000 4132948.24000       0.00193    50.00    50.00     1.80  PERIOD  MAIN
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721197.34000 4132998.24000       0.01533    48.90    48.90     1.80  PERIOD  MAIN
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721397.34000 4133048.24000       0.00230    48.80    48.80     1.80  PERIOD  MAIN
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721497.34000 4133073.24000       0.00132    49.60    49.60     1.80  PERIOD  MAIN
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721547.34000 4133073.24000       0.00113    49.80    49.80     1.80  PERIOD  MAIN
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721597.34000 4133098.24000       0.00087    49.80    49.80     1.80  PERIOD  MAIN
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720589.85000 4131610.10000       0.00035    49.30    49.30     1.80  PERIOD  MAIN
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720339.85000 4131636.04000       0.00030    48.90    48.90     1.80  PERIOD  MAIN
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720414.85000 4131739.80000 0.00037 49.40 49.40 1.80 PERIOD MAIN

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00043824 UCART4
720664.85000 4131869.50000 0.00057 50.50 50.50 1.80 PERIOD MAIN

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720811.78000 4131217.21000       0.00027    48.50    48.50     1.80  PERIOD  MAIN
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720886.78000 4131217.21000       0.00029    48.50    48.50     1.80  PERIOD  MAIN
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720911.78000 4131217.21000       0.00030    48.50    48.50     1.80  PERIOD  MAIN
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720986.78000 4131292.21000       0.00036    48.80    48.80     1.80  PERIOD  MAIN
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00043824 UCART5
721011.78000 4131342.21000 0.00040 48.80 48.80 1.80 PERIOD MAIN

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720811.78000 4131367.21000       0.00032    48.50    48.50     1.80  PERIOD  MAIN
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720886.78000 4131367.21000       0.00035    48.80    48.80     1.80  PERIOD  MAIN
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720836.78000 4131392.21000       0.00034    48.80    48.80     1.80  PERIOD  MAIN
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720886.78000 4131392.21000       0.00036    48.80    48.80     1.80  PERIOD  MAIN
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720911.78000 4131392.21000       0.00037    48.80    48.80     1.80  PERIOD  MAIN
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721036.78000 4131392.21000       0.00046    49.00    49.00     1.80  PERIOD  MAIN
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720886.78000 4131442.21000       0.00039    48.80    48.80     1.80  PERIOD  MAIN
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720911.78000 4131442.21000       0.00040    48.80    48.80     1.80  PERIOD  MAIN
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720936.78000 4131442.21000       0.00042    48.80    48.80     1.80  PERIOD  MAIN
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   00043824  UCART5
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720761.78000 4131467.21000       0.00035    48.80    48.80     1.80  PERIOD  MAIN
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   00043824  UCART5
720836.78000 4131467.21000       0.00038    48.80    48.80     1.80  PERIOD  MAIN
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720811.78000 4131567.21000 0.00042 49.50 49.50 1.80 PERIOD MAIN

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720886.78000 4131567.21000       0.00048    49.60    49.60     1.80  PERIOD  MAIN
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721341.49000 4131064.06000       0.00048    48.50    48.50     1.80  PERIOD  MAIN
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721366.49000 4131064.06000       0.00050    48.40    48.40     1.80  PERIOD  MAIN
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721416.49000 4131064.06000       0.00056    48.20    48.20     1.80  PERIOD  MAIN
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   00043824  UCART6
721091.49000 4131084.06000       0.00031    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131084.06000       0.00033    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131084.06000       0.00034    48.50    48.50     1.80  PERIOD  MAIN
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721166.49000 4131084.06000       0.00035    48.40    48.40     1.80  PERIOD  MAIN
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721216.49000 4131084.06000       0.00039    48.30    48.30     1.80  PERIOD  MAIN
   00043824  UCART6
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721266.49000 4131084.06000       0.00043    48.30    48.30     1.80  PERIOD  MAIN
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721341.49000 4131104.06000       0.00052    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721366.49000 4131104.06000       0.00055    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721391.49000 4131104.06000       0.00058    48.30    48.30     1.80  PERIOD  MAIN
   00043824  UCART6
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   00043824  UCART6
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   00043824  UCART6
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   00043824  UCART6
721116.49000 4131124.06000       0.00034    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131124.06000       0.00036    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131124.06000       0.00038    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131124.06000       0.00039    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131124.06000       0.00041    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131124.06000       0.00043    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131124.06000       0.00046    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721291.49000 4131124.06000       0.00048    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721316.49000 4131124.06000       0.00051    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721341.49000 4131124.06000       0.00054    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
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   00043824  UCART6
721416.49000 4131124.06000       0.00064    48.30    48.30     1.80  PERIOD  MAIN
   00043824  UCART6
721041.49000 4131144.06000       0.00032    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721066.49000 4131144.06000       0.00033    48.60    48.60     1.80  PERIOD  MAIN
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   00043824  UCART6
721116.49000 4131144.06000       0.00035    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131144.06000       0.00037    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131144.06000       0.00039    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131144.06000       0.00041    48.50    48.50     1.80  PERIOD  MAIN
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721216.49000 4131144.06000       0.00043    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131144.06000       0.00045    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131144.06000       0.00048    48.50    48.50     1.80  PERIOD  MAIN
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721291.49000 4131144.06000       0.00050    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721316.49000 4131144.06000       0.00053    48.50    48.50     1.80  PERIOD  MAIN
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   00043824  UCART6
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721066.49000 4131164.06000       0.00034    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131164.06000       0.00035    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131164.06000       0.00037    48.60    48.60     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131164.06000       0.00038    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131164.06000       0.00040    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131164.06000       0.00042    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131164.06000       0.00044    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131164.06000       0.00047    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131164.06000       0.00050    48.50    48.50     1.80  PERIOD  MAIN
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721291.49000 4131164.06000       0.00053    48.50    48.50     1.80  PERIOD  MAIN
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   00043824  UCART6
721341.49000 4131164.06000       0.00059    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721366.49000 4131164.06000       0.00063    48.50    48.50     1.80  PERIOD  MAIN
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721066.49000 4131184.06000       0.00035    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
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   00043824  UCART6
721116.49000 4131184.06000       0.00038    48.60    48.60     1.80  PERIOD  MAIN
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   00043824  UCART6
721166.49000 4131184.06000       0.00041    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131184.06000       0.00044    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131184.06000       0.00046    48.50    48.50     1.80  PERIOD  MAIN
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721041.49000 4131204.06000       0.00034    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721066.49000 4131204.06000       0.00036    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131204.06000       0.00037    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131204.06000       0.00039    48.70    48.70     1.80  PERIOD  MAIN
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   00043824  UCART6
721166.49000 4131204.06000       0.00043    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131204.06000       0.00045    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131204.06000       0.00048    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131204.06000       0.00051    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131204.06000       0.00054    48.50    48.50     1.80  PERIOD  MAIN
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721291.49000 4131204.06000       0.00057    48.50    48.50     1.80  PERIOD  MAIN
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721316.49000 4131204.06000       0.00061    48.50    48.50     1.80  PERIOD  MAIN
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   00043824  UCART6
721066.49000 4131224.06000       0.00037    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131224.06000       0.00038    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131224.06000       0.00040    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131224.06000       0.00042    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131224.06000       0.00045    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131224.06000       0.00047    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131224.06000       0.00050    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131224.06000       0.00053    48.60    48.60     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131224.06000       0.00056    48.60    48.60     1.80  PERIOD  MAIN
   00043824  UCART6
721291.49000 4131224.06000       0.00060    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721316.49000 4131224.06000       0.00064    48.50    48.50     1.80  PERIOD  MAIN
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721341.49000 4131224.06000       0.00069    48.50    48.50     1.80  PERIOD  MAIN
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721391.49000 4131224.06000       0.00078    48.80    48.80     1.80  PERIOD  MAIN
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721066.49000 4131244.06000       0.00038    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131244.06000       0.00040    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131244.06000       0.00042    48.80    48.80     1.80  PERIOD  MAIN
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721141.49000 4131244.06000       0.00044    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131244.06000       0.00046    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131244.06000       0.00049    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131244.06000       0.00052    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131244.06000       0.00055    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131244.06000       0.00059    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
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721341.49000 4131244.06000       0.00073    48.50    48.50     1.80  PERIOD  MAIN
   00043824  UCART6
721366.49000 4131244.06000       0.00078    48.70    48.70     1.80  PERIOD  MAIN
   00043824  UCART6
721391.49000 4131244.06000       0.00083    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
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721041.49000 4131264.06000       0.00038    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721066.49000 4131264.06000       0.00039    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131264.06000       0.00041    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131264.06000       0.00043    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131264.06000       0.00045    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131264.06000       0.00048    48.80    48.80     1.80  PERIOD  MAIN
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   00043824  UCART6
721191.49000 4131264.06000       0.00051    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131264.06000       0.00054    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131264.06000       0.00058    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131264.06000       0.00062    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
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   00043824  UCART6
721066.49000 4131284.06000       0.00041    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131284.06000       0.00042    48.90    48.90     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131284.06000       0.00045    48.90    48.90     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131284.06000       0.00047    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131284.06000       0.00050    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131284.06000       0.00053    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131284.06000       0.00057    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131284.06000       0.00061    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131284.06000       0.00065    48.80    48.80     1.80  PERIOD  MAIN
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721391.49000 4131284.06000       0.00094    48.80    48.80     1.80  PERIOD  MAIN
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721041.49000 4131304.06000       0.00040    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721066.49000 4131304.06000       0.00042    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131304.06000       0.00044    48.90    48.90     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131304.06000       0.00046    49.00    49.00     1.80  PERIOD  MAIN
   00043824  UCART6
721141.49000 4131304.06000       0.00049    49.00    49.00     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131304.06000       0.00052    48.90    48.90     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131304.06000       0.00056    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131304.06000       0.00060    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721241.49000 4131304.06000       0.00064    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721266.49000 4131304.06000       0.00069    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721291.49000 4131304.06000       0.00074    48.80    48.80     1.80  PERIOD  MAIN
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721416.49000 4131304.06000       0.00107    49.00    49.00     1.80  PERIOD  MAIN
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721041.49000 4131324.06000       0.00041    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721066.49000 4131324.06000       0.00043    48.80    48.80     1.80  PERIOD  MAIN
   00043824  UCART6
721091.49000 4131324.06000       0.00046    49.00    49.00     1.80  PERIOD  MAIN
   00043824  UCART6
721116.49000 4131324.06000       0.00048    49.10    49.10     1.80  PERIOD  MAIN
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721141.49000 4131324.06000       0.00051    49.10    49.10     1.80  PERIOD  MAIN
   00043824  UCART6
721166.49000 4131324.06000       0.00054    49.10    49.10     1.80  PERIOD  MAIN
   00043824  UCART6
721191.49000 4131324.06000       0.00058    48.90    48.90     1.80  PERIOD  MAIN
   00043824  UCART6
721216.49000 4131324.06000       0.00063    48.90    48.90     1.80  PERIOD  MAIN
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00043824
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00043824
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00043824
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722032.08000 4130910.65000 0.00087 50.26 50.26 0.00 PERIOD MAIN
00043824
722055.03000 4130900.73000 0.00087 50.33 50.33 0.00 PERIOD MAIN
00043824
722077.99000 4130890.82000 0.00086 50.58 50.58 0.00 PERIOD MAIN
00043824
722100.94000 4130880.91000 0.00086 50.90 50.90 0.00 PERIOD MAIN
00043824
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00043824
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00043824
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00043824
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00043824
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00043824
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00043824
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00043824
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00043824
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00043824
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00043824
722029.78000 4130987.89000 0.00100 50.55 50.55 0.00 PERIOD MAIN
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00043824
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00043824
721960.93000 4131017.63000 0.00102 50.31 50.31 0.00 PERIOD MAIN
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00043824
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00043824
721892.08000 4131047.37000 0.00104 50.31 50.31 0.00 PERIOD MAIN
00043824
721869.13000 4131057.29000 0.00104 50.11 50.11 0.00 PERIOD MAIN
00043824
721846.18000 4131067.20000 0.00105 50.00 50.00 0.00 PERIOD MAIN
00043824
721823.23000 4131077.11000 0.00105 49.70 49.70 0.00 PERIOD MAIN

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    00043824
  721800.28000 4131087.03000       0.00106    49.56    49.56     0.00  PERIOD  MAIN
    00043824
  721777.33000 4131096.94000       0.00106    49.26    49.26     0.00  PERIOD  MAIN
    00043824
  721754.38000 4131106.85000       0.00107    48.90    48.90     0.00  PERIOD  MAIN
    00043824
  721731.43000 4131116.77000       0.00107    48.67    48.67     0.00  PERIOD  MAIN
    00043824
  721708.48000 4131126.68000       0.00107    48.46    48.46     0.00  PERIOD  MAIN
    00043824
  721685.52000 4131136.60000       0.00107    48.29    48.29     0.00  PERIOD  MAIN
    00043824
  721662.57000 4131146.51000       0.00107    48.30    48.30     0.00  PERIOD  MAIN
    00043824
  721639.62000 4131156.42000       0.00106    48.26    48.26     0.00  PERIOD  MAIN
    00043824
  721616.67000 4131166.34000       0.00106    48.17    48.17     0.00  PERIOD  MAIN
    00043824
  721593.72000 4131176.25000       0.00105    48.32    48.32     0.00  PERIOD  MAIN
    00043824
  721570.77000 4131186.16000       0.00104    48.25    48.25     0.00  PERIOD  MAIN
    00043824
  721547.82000 4131196.08000       0.00103    48.17    48.17     0.00  PERIOD  MAIN
    00043824
  721524.87000 4131205.99000       0.00101    48.27    48.27     0.00  PERIOD  MAIN
    00043824
  721501.92000 4131215.90000       0.00100    48.37    48.37     0.00  PERIOD  MAIN
    00043824
  721478.97000 4131225.82000       0.00098    48.47    48.47     0.00  PERIOD  MAIN
    00043824
  721456.02000 4131235.73000       0.00095    48.57    48.57     0.00  PERIOD  MAIN
    00043824
  721024.56000 4133243.02000       0.00356    49.23    49.23     0.00  PERIOD  MAIN
    00043824
  720598.35000 4133478.99000       0.00653    48.87    48.87     0.00  PERIOD  MAIN
    00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
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* AERMOD (23132 ): MITC CONSTRUCTION HRA (NO SOLAR)
       01/02/24
* AERMET ( 21112):
       10:17:53
* MODELING OPTIONS USED:   RegDFAULT  CONC  ELEV  FLGPOL  URBAN  ADJ_U*
*         PLOT FILE OF PERIOD VALUES AVERAGED ACROSS   0 YEARS FOR SOURCE GROUP:
ALL
*         FOR A TOTAL OF  4636 RECEPTORS.
*         FORMAT: (3(1X,F13.5),3(1X,F8.2),2X,A6,2X,A8,2X,I8.8,2X,A8)


*        X             Y      AVERAGE CONC    ZELEV    ZHILL    ZFLAG    AVE
GRP      NUM HRS   NET ID
* _____________  _____________  _____________   _______   _______   _______  _______
_________  _________  _________
  721117.14000 4132065.52000       0.03173    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721142.14000 4132065.52000       0.02155    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721167.14000 4132065.52000       0.01588    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721192.14000 4132065.52000       0.01236    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721217.14000 4132065.52000       0.00996    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721242.14000 4132065.52000       0.00821    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721267.14000 4132065.52000       0.00688    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721292.14000 4132065.52000       0.00585    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721317.14000 4132065.52000       0.00503    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721342.14000 4132065.52000       0.00437    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721367.14000 4132065.52000       0.00385    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721392.14000 4132065.52000       0.00342    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721417.14000 4132065.52000       0.00307    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721442.14000 4132065.52000       0.00278    48.80    48.80     1.80  PERIOD  ALL
     00043824  UCART1
  721467.14000 4132065.52000       0.00253    49.10    49.10     1.80  PERIOD  ALL
     00043824  UCART1
  721492.14000 4132065.52000       0.00233    49.10    49.10     1.80  PERIOD  ALL
     00043824  UCART1
  721517.14000 4132065.52000       0.00216    49.50    49.50     1.80  PERIOD  ALL
     00043824  UCART1
  721542.14000 4132065.52000       0.00201    49.90    49.90     1.80  PERIOD  ALL
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   00043824  UCART1
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   00043824  UCART1
721592.14000 4132065.52000       0.00177    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721617.14000 4132065.52000       0.00168    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721642.14000 4132065.52000       0.00160    50.30    50.30     1.80  PERIOD  ALL
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721667.14000 4132065.52000       0.00153    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721692.14000 4132065.52000       0.00147    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721717.14000 4132065.52000       0.00142    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721742.14000 4132065.52000       0.00136    50.40    50.40     1.80  PERIOD  ALL
   00043824  UCART1
721767.14000 4132065.52000       0.00132    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721792.14000 4132065.52000       0.00127    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721817.14000 4132065.52000       0.00124    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721842.14000 4132065.52000       0.00120    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721117.14000 4132090.52000       0.02929    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721142.14000 4132090.52000       0.02044    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721167.14000 4132090.52000       0.01526    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721192.14000 4132090.52000       0.01192    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721217.14000 4132090.52000       0.00959    48.80    48.80     1.80  PERIOD  ALL
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721242.14000 4132090.52000       0.00786    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721267.14000 4132090.52000       0.00656    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721292.14000 4132090.52000       0.00554    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721317.14000 4132090.52000       0.00475    48.80    48.80     1.80  PERIOD  ALL
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721342.14000 4132090.52000       0.00413    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721367.14000 4132090.52000       0.00363    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721392.14000 4132090.52000       0.00322    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721417.14000 4132090.52000       0.00290    48.80    48.80     1.80  PERIOD  ALL
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721442.14000 4132090.52000       0.00263    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721467.14000 4132090.52000       0.00240    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART1
721492.14000 4132090.52000       0.00222    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART1
721517.14000 4132090.52000       0.00205    49.50    49.50     1.80  PERIOD  ALL
   00043824  UCART1
721542.14000 4132090.52000       0.00192    49.90    49.90     1.80  PERIOD  ALL
   00043824  UCART1
721567.14000 4132090.52000       0.00180    50.10    50.10     1.80  PERIOD  ALL
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721592.14000 4132090.52000       0.00171    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721617.14000 4132090.52000       0.00162    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721642.14000 4132090.52000       0.00155    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721667.14000 4132090.52000       0.00148    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721692.14000 4132090.52000       0.00143    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721717.14000 4132090.52000       0.00138    50.30    50.30     1.80  PERIOD  ALL
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721742.14000 4132090.52000       0.00133    50.30    50.30     1.80  PERIOD  ALL
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721767.14000 4132090.52000       0.00129    50.40    50.40     1.80  PERIOD  ALL
   00043824  UCART1
721792.14000 4132090.52000       0.00125    50.60    50.60     1.80  PERIOD  ALL
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721817.14000 4132090.52000       0.00121    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721842.14000 4132090.52000       0.00118    50.60    50.60     1.80  PERIOD  ALL
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721117.14000 4132115.52000       0.02806    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721142.14000 4132115.52000       0.01987    48.80    48.80     1.80  PERIOD  ALL
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721167.14000 4132115.52000       0.01489    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721192.14000 4132115.52000       0.01159    48.80    48.80     1.80  PERIOD  ALL
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721217.14000 4132115.52000       0.00925    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721242.14000 4132115.52000       0.00753    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721267.14000 4132115.52000       0.00624    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721292.14000 4132115.52000       0.00525    48.80    48.80     1.80  PERIOD  ALL
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   00043824  UCART1
721342.14000 4132115.52000       0.00389    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721367.14000 4132115.52000       0.00342    48.80    48.80     1.80  PERIOD  ALL
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721392.14000 4132115.52000       0.00304    48.80    48.80     1.80  PERIOD  ALL
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721417.14000 4132115.52000       0.00274    48.80    48.80     1.80  PERIOD  ALL
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721442.14000 4132115.52000       0.00249    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721467.14000 4132115.52000       0.00229    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721492.14000 4132115.52000       0.00211    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART1
721517.14000 4132115.52000       0.00196    49.60    49.60     1.80  PERIOD  ALL
   00043824  UCART1
721542.14000 4132115.52000       0.00184    49.90    49.90     1.80  PERIOD  ALL
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721567.14000 4132115.52000       0.00173    50.10    50.10     1.80  PERIOD  ALL
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721592.14000 4132115.52000       0.00164    50.30    50.30     1.80  PERIOD  ALL
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721642.14000 4132115.52000       0.00150    50.30    50.30     1.80  PERIOD  ALL
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721667.14000 4132115.52000       0.00144    50.30    50.30     1.80  PERIOD  ALL
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721692.14000 4132115.52000       0.00139    50.30    50.30     1.80  PERIOD  ALL
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721717.14000 4132115.52000       0.00134    50.30    50.30     1.80  PERIOD  ALL
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721742.14000 4132115.52000       0.00130    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721767.14000 4132115.52000       0.00126    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721792.14000 4132115.52000       0.00122    50.40    50.40     1.80  PERIOD  ALL
   00043824  UCART1
721817.14000 4132115.52000       0.00119    50.50    50.50     1.80  PERIOD  ALL
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721842.14000 4132115.52000       0.00116    50.60    50.60     1.80  PERIOD  ALL
   00043824  UCART1
721117.14000 4132140.52000       0.02761    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721142.14000 4132140.52000       0.01965    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721167.14000 4132140.52000       0.01463    48.80    48.80     1.80  PERIOD  ALL
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   00043824  UCART1
721192.14000 4132140.52000       0.01127    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721217.14000 4132140.52000       0.00890    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721242.14000 4132140.52000       0.00718    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721267.14000 4132140.52000       0.00591    48.80    48.80     1.80  PERIOD  ALL
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721292.14000 4132140.52000       0.00495    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721317.14000 4132140.52000       0.00423    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721342.14000 4132140.52000       0.00366    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721367.14000 4132140.52000       0.00322    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721392.14000 4132140.52000       0.00288    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721417.14000 4132140.52000       0.00260    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721442.14000 4132140.52000       0.00237    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART1
721467.14000 4132140.52000       0.00218    49.00    49.00     1.80  PERIOD  ALL
   00043824  UCART1
721492.14000 4132140.52000       0.00202    49.40    49.40     1.80  PERIOD  ALL
   00043824  UCART1
721517.14000 4132140.52000       0.00188    49.60    49.60     1.80  PERIOD  ALL
   00043824  UCART1
721542.14000 4132140.52000       0.00177    49.90    49.90     1.80  PERIOD  ALL
   00043824  UCART1
721567.14000 4132140.52000       0.00168    50.10    50.10     1.80  PERIOD  ALL
   00043824  UCART1
721592.14000 4132140.52000       0.00159    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721617.14000 4132140.52000       0.00152    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721642.14000 4132140.52000       0.00146    50.30    50.30     1.80  PERIOD  ALL
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721767.14000 4132265.52000       0.00121    50.30    50.30     1.80  PERIOD  ALL
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721792.14000 4132265.52000       0.00118    50.60    50.60     1.80  PERIOD  ALL
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721392.14000 4132440.52000       0.00185    49.00    49.00     1.80  PERIOD  ALL
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721417.14000 4132440.52000       0.00178    49.10    49.10     1.80  PERIOD  ALL
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721442.14000 4132440.52000       0.00172    49.20    49.20     1.80  PERIOD  ALL
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721542.14000 4132440.52000       0.00155    50.20    50.20     1.80  PERIOD  ALL
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721417.14000 4132465.52000       0.00177    49.20    49.20     1.80  PERIOD  ALL
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721292.14000 4132490.52000       0.00214    48.80    48.80     1.80  PERIOD  ALL
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721742.14000 4132490.52000       0.00155    50.40    50.40     1.80  PERIOD  ALL
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721767.14000 4132490.52000       0.00156    50.60    50.60     1.80  PERIOD  ALL
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721792.14000 4132490.52000       0.00157    50.60    50.60     1.80  PERIOD  ALL
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721817.14000 4132490.52000       0.00157    50.60    50.60     1.80  PERIOD  ALL
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721617.14000 4132515.52000       0.00162    50.60    50.60     1.80  PERIOD  ALL
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721667.14000 4132515.52000       0.00162    50.30    50.30     1.80  PERIOD  ALL
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721692.14000 4132515.52000       0.00162    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721717.14000 4132515.52000       0.00164    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART1
721742.14000 4132515.52000       0.00165    50.40    50.40     1.80  PERIOD  ALL
   00043824  UCART1
721767.14000 4132515.52000       0.00167    50.60    50.60     1.80  PERIOD  ALL
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721792.14000 4132515.52000       0.00168    50.60    50.60     1.80  PERIOD  ALL
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721617.14000 4132540.52000       0.00169    50.60    50.60     1.80  PERIOD  ALL
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721642.14000 4132540.52000       0.00170    50.30    50.30     1.80  PERIOD  ALL
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721667.14000 4132540.52000       0.00171    50.30    50.30     1.80  PERIOD  ALL
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721417.14000 4132565.52000       0.00185    49.40    49.40     1.80  PERIOD  ALL
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721442.14000 4132565.52000       0.00183    49.40    49.40     1.80  PERIOD  ALL
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721467.14000 4132565.52000       0.00181    49.70    49.70     1.80  PERIOD  ALL
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721492.14000 4132565.52000       0.00179    50.00    50.00     1.80  PERIOD  ALL
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721517.14000 4132565.52000       0.00178    50.10    50.10     1.80  PERIOD  ALL
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721542.14000 4132565.52000       0.00178    50.30    50.30     1.80  PERIOD  ALL
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721592.14000 4132565.52000       0.00178    50.60    50.60     1.80  PERIOD  ALL
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721617.14000 4132565.52000       0.00179    50.60    50.60     1.80  PERIOD  ALL
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721242.14000 4132615.52000       0.00215    49.10    49.10     1.80  PERIOD  ALL
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721292.14000 4132615.52000       0.00208    49.10    49.10     1.80  PERIOD  ALL
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721567.14000 4132615.52000       0.00200    50.40    50.40     1.80  PERIOD  ALL
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721592.14000 4132615.52000       0.00203    50.50    50.50     1.80  PERIOD  ALL
   00043824  UCART1
721617.14000 4132615.52000       0.00207    50.60    50.60     1.80  PERIOD  ALL
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721167.14000 4132640.52000       0.00228    49.10    49.10     1.80  PERIOD  ALL
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721242.14000 4132640.52000       0.00217    49.10    49.10     1.80  PERIOD  ALL
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   00043824  UCART1
721492.14000 4132640.52000       0.00208    50.00    50.00     1.80  PERIOD  ALL
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721197.34000 4132648.24000       0.00222    49.10    49.10     1.80  PERIOD  ALL
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721222.34000 4132648.24000       0.00220    49.10    49.10     1.80  PERIOD  ALL
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721297.34000 4132648.24000       0.00213    49.30    49.30     1.80  PERIOD  ALL
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721322.34000 4132648.24000       0.00211    49.40    49.40     1.80  PERIOD  ALL
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721347.34000 4132648.24000       0.00210    49.40    49.40     1.80  PERIOD  ALL
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721397.34000 4132648.24000       0.00209    49.60    49.60     1.80  PERIOD  ALL
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721447.34000 4132648.24000       0.00209    49.70    49.70     1.80  PERIOD  ALL
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721472.34000 4132648.24000       0.00211    50.00    50.00     1.80  PERIOD  ALL
   00043824  UCART2
721497.34000 4132648.24000       0.00213    50.00    50.00     1.80  PERIOD  ALL
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721547.34000 4132648.24000       0.00220    50.30    50.30     1.80  PERIOD  ALL
   00043824  UCART2
721572.34000 4132648.24000       0.00224    50.40    50.40     1.80  PERIOD  ALL
   00043824  UCART2
721597.34000 4132648.24000       0.00230    50.50    50.50     1.80  PERIOD  ALL
   00043824  UCART2
721622.34000 4132648.24000       0.00236    50.70    50.70     1.80  PERIOD  ALL
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721147.34000 4132673.24000       0.00227    49.10    49.10     1.80  PERIOD  ALL
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721147.34000 4132698.24000       0.00227    49.10    49.10     1.80  PERIOD  ALL
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721172.34000 4132698.24000       0.00228    49.20    49.20     1.80  PERIOD  ALL
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721197.34000 4132698.24000       0.00228    49.40    49.40     1.80  PERIOD  ALL
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721222.34000 4132698.24000       0.00229    49.40    49.40     1.80  PERIOD  ALL
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721247.34000 4132698.24000       0.00229    49.60    49.60     1.80  PERIOD  ALL
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721347.34000 4132698.24000       0.00231    49.40    49.40     1.80  PERIOD  ALL
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721172.34000 4132723.24000       0.00234    49.40    49.40     1.80  PERIOD  ALL
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721347.34000 4132723.24000       0.00247    49.70    49.70     1.80  PERIOD  ALL
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718992.38000 4132791.48000       0.00035    47.20    47.20     1.80  PERIOD  ALL
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718892.38000 4133366.48000       0.00067    47.40    47.40     1.80  PERIOD  ALL
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718917.38000 4133366.48000       0.00070    47.20    47.20     1.80  PERIOD  ALL
   00043824  UCART3
718942.38000 4133366.48000       0.00072    47.20    47.20     1.80  PERIOD  ALL
   00043824  UCART3
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719017.38000 4133366.48000       0.00081    47.20    47.20     1.80  PERIOD  ALL
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   00043824  UCART3
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720464.85000 4131376.64000       0.00062    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART4
720639.85000 4131376.64000       0.00065    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART4
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720439.85000 4131402.58000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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720464.85000 4131402.58000       0.00064    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART4
720539.85000 4131402.58000       0.00066    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART4
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   00043824  UCART4
720439.85000 4131428.52000       0.00066    48.50    48.50     1.80  PERIOD  ALL
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720464.85000 4131428.52000       0.00066    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART4
720489.85000 4131428.52000       0.00067    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART4
720514.85000 4131428.52000       0.00067    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART4
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720639.85000 4131428.52000       0.00069    48.50    48.50     1.80  PERIOD  ALL
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720664.85000 4131428.52000       0.00069    48.60    48.60     1.80  PERIOD  ALL
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720689.85000 4131428.52000       0.00069    48.70    48.70     1.80  PERIOD  ALL
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720714.85000 4131428.52000       0.00070    48.70    48.70     1.80  PERIOD  ALL
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720689.85000 4131454.46000       0.00071    48.80    48.80     1.80  PERIOD  ALL
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720714.85000 4131454.46000       0.00072    48.80    48.80     1.80  PERIOD  ALL
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720414.85000 4131480.40000       0.00070    48.50    48.50     1.80  PERIOD  ALL
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720489.85000 4131480.40000       0.00071    48.60    48.60     1.80  PERIOD  ALL
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720514.85000 4131480.40000       0.00072    48.60    48.60     1.80  PERIOD  ALL
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720539.85000 4131480.40000       0.00072    48.60    48.60     1.80  PERIOD  ALL
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720439.85000 4131506.34000       0.00073    48.70    48.70     1.80  PERIOD  ALL
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720464.85000 4131506.34000       0.00074    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART4
720489.85000 4131506.34000       0.00074    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART4
720514.85000 4131506.34000       0.00074    48.80    48.80     1.80  PERIOD  ALL
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720339.85000 4131636.04000       0.00087    48.90    48.90     1.80  PERIOD  ALL
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   00043824  UCART4
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   00043824  UCART4
720589.85000 4131765.74000       0.00095    50.00    50.00     1.80  PERIOD  ALL
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720314.85000 4131817.62000       0.00115    48.50    48.50     1.80  PERIOD  ALL
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720664.85000 4131817.62000       0.00106    50.10    50.10     1.80  PERIOD  ALL
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720439.85000 4131869.50000       0.00110    50.50    50.50     1.80  PERIOD  ALL
   00043824  UCART4
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720489.85000 4131895.44000       0.00109    51.20    51.20     1.80  PERIOD  ALL
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720664.85000 4131895.44000       0.00122    50.80    50.80     1.80  PERIOD  ALL
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720689.85000 4131895.44000       0.00127    51.10    51.10     1.80  PERIOD  ALL
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720836.78000 4130992.21000       0.00047    48.20    48.20     1.80  PERIOD  ALL
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720886.78000 4130992.21000       0.00048    48.20    48.20     1.80  PERIOD  ALL
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720911.78000 4130992.21000       0.00049    48.20    48.20     1.80  PERIOD  ALL
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720786.78000 4131017.21000       0.00047    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131017.21000       0.00048    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131017.21000       0.00048    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720861.78000 4131017.21000       0.00049    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131017.21000       0.00049    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131017.21000       0.00050    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131017.21000       0.00050    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720961.78000 4131017.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720986.78000 4131017.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
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721036.78000 4131017.21000       0.00053    48.20    48.20     1.80  PERIOD  ALL
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   00043824  UCART5
720811.78000 4131042.21000       0.00049    48.20    48.20     1.80  PERIOD  ALL
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720836.78000 4131042.21000       0.00049    48.20    48.20     1.80  PERIOD  ALL
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720936.78000 4131042.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
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720836.78000 4131067.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
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720861.78000 4131067.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
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720886.78000 4131067.21000       0.00052    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131067.21000       0.00052    48.20    48.20     1.80  PERIOD  ALL
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720936.78000 4131067.21000       0.00053    48.30    48.30     1.80  PERIOD  ALL
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720811.78000 4131092.21000       0.00051    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131092.21000       0.00052    48.20    48.20     1.80  PERIOD  ALL
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720861.78000 4131092.21000       0.00052    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131092.21000       0.00053    48.20    48.20     1.80  PERIOD  ALL
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   00043824  UCART5
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720936.78000 4131092.21000       0.00054    48.30    48.30     1.80  PERIOD  ALL
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720936.78000 4131117.21000       0.00055    48.40    48.40     1.80  PERIOD  ALL
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   00043824  UCART5
721011.78000 4131117.21000       0.00057    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
721036.78000 4131117.21000       0.00058    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720761.78000 4131142.21000       0.00053    48.20    48.20     1.80  PERIOD  ALL
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720786.78000 4131142.21000       0.00053    48.20    48.20     1.80  PERIOD  ALL
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720886.78000 4131142.21000       0.00055    48.40    48.40     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131142.21000       0.00056    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART5
720961.78000 4131142.21000       0.00057    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720986.78000 4131142.21000       0.00058    48.50    48.50     1.80  PERIOD  ALL
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720886.78000 4131167.21000       0.00057    48.40    48.40     1.80  PERIOD  ALL
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720911.78000 4131167.21000       0.00057    48.50    48.50     1.80  PERIOD  ALL
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720936.78000 4131167.21000       0.00058    48.50    48.50     1.80  PERIOD  ALL
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720836.78000 4131192.21000       0.00057    48.50    48.50     1.80  PERIOD  ALL
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720886.78000 4131192.21000       0.00058    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131192.21000       0.00059    48.50    48.50     1.80  PERIOD  ALL
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720936.78000 4131192.21000       0.00060    48.50    48.50     1.80  PERIOD  ALL
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720786.78000 4131217.21000       0.00058    48.40    48.40     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131217.21000       0.00058    48.50    48.50     1.80  PERIOD  ALL
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720836.78000 4131217.21000       0.00059    48.50    48.50     1.80  PERIOD  ALL
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720861.78000 4131217.21000       0.00059    48.50    48.50     1.80  PERIOD  ALL
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720886.78000 4131217.21000       0.00060    48.50    48.50     1.80  PERIOD  ALL
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720911.78000 4131217.21000       0.00060    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131217.21000       0.00061    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720961.78000 4131217.21000       0.00062    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720986.78000 4131217.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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721036.78000 4131217.21000       0.00065    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720761.78000 4131242.21000       0.00059    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720786.78000 4131242.21000       0.00059    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131242.21000       0.00060    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131242.21000       0.00060    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720861.78000 4131242.21000       0.00061    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131242.21000       0.00061    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131242.21000       0.00062    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131242.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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720961.78000 4131242.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART5
720786.78000 4131267.21000       0.00061    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131267.21000       0.00061    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131267.21000       0.00062    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720861.78000 4131267.21000       0.00062    48.50    48.50     1.80  PERIOD  ALL
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720886.78000 4131267.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131267.21000       0.00064    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131267.21000       0.00064    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720961.78000 4131267.21000       0.00065    48.60    48.60     1.80  PERIOD  ALL
   00043824  UCART5
720986.78000 4131267.21000       0.00066    48.60    48.60     1.80  PERIOD  ALL
   00043824  UCART5
721011.78000 4131267.21000       0.00067    48.80    48.80     1.80  PERIOD  ALL
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721036.78000 4131267.21000       0.00069    48.80    48.80     1.80  PERIOD  ALL
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720761.78000 4131292.21000       0.00062    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
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720811.78000 4131292.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131292.21000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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720861.78000 4131292.21000       0.00064    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131292.21000       0.00064    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131292.21000       0.00065    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131292.21000       0.00066    48.60    48.60     1.80  PERIOD  ALL
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720986.78000 4131292.21000       0.00068    48.80    48.80     1.80  PERIOD  ALL
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720836.78000 4131317.21000       0.00065    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART5
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   00043824  UCART5
720836.78000 4131342.21000       0.00066    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART5
720886.78000 4131342.21000       0.00068    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131342.21000       0.00069    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131342.21000       0.00070    48.80    48.80     1.80  PERIOD  ALL
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   00043824  UCART5
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   00043824  UCART5
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   00043824  UCART5
720861.78000 4131367.21000       0.00069    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131367.21000       0.00070    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
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720761.78000 4131392.21000       0.00068    48.60    48.60     1.80  PERIOD  ALL
   00043824  UCART5
720786.78000 4131392.21000       0.00069    48.60    48.60     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131392.21000       0.00069    48.70    48.70     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131392.21000       0.00070    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720861.78000 4131392.21000       0.00071    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131392.21000       0.00072    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131392.21000       0.00073    48.80    48.80     1.80  PERIOD  ALL
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721036.78000 4131392.21000       0.00081    49.00    49.00     1.80  PERIOD  ALL
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   00043824  UCART5
720786.78000 4131417.21000       0.00070    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131417.21000       0.00071    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131417.21000       0.00072    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART5
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   00043824  UCART5
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720761.78000 4131467.21000       0.00074    48.80    48.80     1.80  PERIOD  ALL
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   00043824  UCART5
720911.78000 4131467.21000       0.00080    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131467.21000       0.00082    49.10    49.10     1.80  PERIOD  ALL
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720786.78000 4131492.21000       0.00076    49.00    49.00     1.80  PERIOD  ALL
   00043824  UCART5
720811.78000 4131492.21000       0.00077    49.00    49.00     1.80  PERIOD  ALL
   00043824  UCART5
720836.78000 4131492.21000       0.00078    49.00    49.00     1.80  PERIOD  ALL
   00043824  UCART5
720861.78000 4131492.21000       0.00080    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART5
720886.78000 4131492.21000       0.00081    49.10    49.10     1.80  PERIOD  ALL
   00043824  UCART5
720911.78000 4131492.21000       0.00083    49.20    49.20     1.80  PERIOD  ALL
   00043824  UCART5
720936.78000 4131492.21000       0.00084    49.30    49.30     1.80  PERIOD  ALL
   00043824  UCART5
720961.78000 4131492.21000       0.00087    49.30    49.30     1.80  PERIOD  ALL
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720986.78000 4131492.21000       0.00089    49.30    49.30     1.80  PERIOD  ALL
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721011.78000 4131492.21000       0.00092    49.30    49.30     1.80  PERIOD  ALL
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721036.78000 4131492.21000       0.00095    49.40    49.40     1.80  PERIOD  ALL
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720761.78000 4131517.21000       0.00078    49.00    49.00     1.80  PERIOD  ALL
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720786.78000 4131517.21000       0.00078    49.10    49.10     1.80  PERIOD  ALL
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   00043824  UCART5
720836.78000 4131517.21000       0.00081    49.30    49.30     1.80  PERIOD  ALL
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720811.78000 4131567.21000       0.00084    49.50    49.50     1.80  PERIOD  ALL
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720886.78000 4131567.21000       0.00090    49.60    49.60     1.80  PERIOD  ALL
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   00043824  UCART6
721141.49000 4131064.06000       0.00059    48.40    48.40     1.80  PERIOD  ALL
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   00043824  UCART6
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   00043824  UCART6
721216.49000 4131064.06000       0.00063    48.20    48.20     1.80  PERIOD  ALL
   00043824  UCART6
721241.49000 4131064.06000       0.00065    48.20    48.20     1.80  PERIOD  ALL
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721316.49000 4131064.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART6
721416.49000 4131064.06000       0.00079    48.20    48.20     1.80  PERIOD  ALL
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   00043824  UCART6
721066.49000 4131084.06000       0.00057    48.40    48.40     1.80  PERIOD  ALL
   00043824  UCART6
721091.49000 4131084.06000       0.00058    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721116.49000 4131084.06000       0.00059    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721141.49000 4131084.06000       0.00060    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721166.49000 4131084.06000       0.00062    48.40    48.40     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131084.06000       0.00063    48.30    48.30     1.80  PERIOD  ALL
   00043824  UCART6
721216.49000 4131084.06000       0.00065    48.30    48.30     1.80  PERIOD  ALL
   00043824  UCART6
721241.49000 4131084.06000       0.00066    48.30    48.30     1.80  PERIOD  ALL
   00043824  UCART6
721266.49000 4131084.06000       0.00068    48.30    48.30     1.80  PERIOD  ALL
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721291.49000 4131084.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721316.49000 4131084.06000       0.00072    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART6
721116.49000 4131104.06000       0.00060    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721141.49000 4131104.06000       0.00062    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721166.49000 4131104.06000       0.00063    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131104.06000       0.00065    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721216.49000 4131104.06000       0.00066    48.50    48.50     1.80  PERIOD  ALL
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721241.49000 4131104.06000       0.00068    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART6
721391.49000 4131104.06000       0.00082    48.30    48.30     1.80  PERIOD  ALL
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   00043824  UCART6
721141.49000 4131124.06000       0.00063    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721166.49000 4131124.06000       0.00065    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131124.06000       0.00066    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721216.49000 4131124.06000       0.00068    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721241.49000 4131124.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721266.49000 4131124.06000       0.00072    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721291.49000 4131124.06000       0.00074    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721316.49000 4131124.06000       0.00077    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721341.49000 4131124.06000       0.00079    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721366.49000 4131124.06000       0.00082    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721391.49000 4131124.06000       0.00085    48.40    48.40     1.80  PERIOD  ALL
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721066.49000 4131144.06000       0.00061    48.60    48.60     1.80  PERIOD  ALL
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721116.49000 4131144.06000       0.00063    48.50    48.50     1.80  PERIOD  ALL
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721141.49000 4131144.06000       0.00065    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
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721191.49000 4131144.06000       0.00068    48.50    48.50     1.80  PERIOD  ALL
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721216.49000 4131144.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
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721316.49000 4131144.06000       0.00079    48.50    48.50     1.80  PERIOD  ALL
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721341.49000 4131144.06000       0.00082    48.50    48.50     1.80  PERIOD  ALL
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721366.49000 4131144.06000       0.00085    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART6
721116.49000 4131164.06000       0.00065    48.60    48.60     1.80  PERIOD  ALL
   00043824  UCART6
721141.49000 4131164.06000       0.00066    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721166.49000 4131164.06000       0.00068    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131164.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
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721216.49000 4131164.06000       0.00072    48.50    48.50     1.80  PERIOD  ALL
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721241.49000 4131164.06000       0.00074    48.50    48.50     1.80  PERIOD  ALL
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721266.49000 4131164.06000       0.00077    48.50    48.50     1.80  PERIOD  ALL
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721091.49000 4131184.06000       0.00065    48.80    48.80     1.80  PERIOD  ALL
   00043824  UCART6
721116.49000 4131184.06000       0.00066    48.60    48.60     1.80  PERIOD  ALL
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721141.49000 4131184.06000       0.00068    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721166.49000 4131184.06000       0.00070    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131184.06000       0.00072    48.50    48.50     1.80  PERIOD  ALL
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721216.49000 4131184.06000       0.00074    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721241.49000 4131184.06000       0.00076    48.50    48.50     1.80  PERIOD  ALL
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721266.49000 4131184.06000       0.00079    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721291.49000 4131184.06000       0.00082    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721316.49000 4131184.06000       0.00085    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721341.49000 4131184.06000       0.00088    48.50    48.50     1.80  PERIOD  ALL
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721366.49000 4131184.06000       0.00092    48.50    48.50     1.80  PERIOD  ALL
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   00043824  UCART6
721091.49000 4131204.06000       0.00066    48.80    48.80     1.80  PERIOD  ALL
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721116.49000 4131204.06000       0.00068    48.70    48.70     1.80  PERIOD  ALL
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721166.49000 4131204.06000       0.00072    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721191.49000 4131204.06000       0.00074    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721216.49000 4131204.06000       0.00076    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721241.49000 4131204.06000       0.00079    48.50    48.50     1.80  PERIOD  ALL
   00043824  UCART6
721266.49000 4131204.06000       0.00082    48.50    48.50     1.80  PERIOD  ALL
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721291.49000 4131204.06000       0.00085    48.50    48.50     1.80  PERIOD  ALL
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721316.49000 4131204.06000       0.00088    48.50    48.50     1.80  PERIOD  ALL
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  721616.67000 4131166.34000       0.00127    48.17    48.17     0.00  PERIOD  ALL
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  721547.82000 4131196.08000       0.00125    48.17    48.17     0.00  PERIOD  ALL
    00043824
  721524.87000 4131205.99000       0.00124    48.27    48.27     0.00  PERIOD  ALL
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    00043824
  720598.35000 4133478.99000       0.00666    48.87    48.87     0.00  PERIOD  ALL
    00043824
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
** CONCUNIT ug/m^3
** DEPUNIT g/m^2
```

HARP2 - HRACalc (dated 22118) 1/3/2024 9:48:38 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
****
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: Derived

****
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 2

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 0
16<30 Years Bin: 0
16 to 70 Years Bin: 0

****
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: LongTerm24HR

Worker Adjustment Factors

Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

****
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: D:\Documents\MITC\MITC construct ARMD\HRA\MITC_MAINCancerRisk.csv
Calculating chronic risk
Chronic risk saved to: D:\Documents\MITC\MITC construct ARMD\HRA\MITC_MAINNCChronicRisk.csv
Calculating acute risk
Acute risk saved to: D:\Documents\MITC\MITC construct ARMD\HRA\MITC_MAINNCAcuteRisk.csv
HRA ran successfully

*HARP - HRACalc v22118 1/3/2024 9:48:38 AM - Cancer Risk - Input File: D:\Documents\MITC\MITC construc

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK
1	Apple		9901	DieselExhF	0.02	6.8418e-0	2YrCancer	*	6.8418e-0
2	Woodbridge		9901	DieselExhF	0.018	6.1577e-0	2YrCancer	*	6.1577e-0
3	Modern (solar)		9901	DieselExhF	0.009	3.0788e-0	2YrCancer	*	3.0788e-0
4	Modern (no solar)		9901	DieselExhF	0.0011	3.763e-07	2YrCancer	*	3.763e-07

t ARMD\HRA\MITC_MAINHRAInput.hra

SOIL_RISK	DERMAL_F	MMILK_RI	WATER_RI	FISH_RISK	CROP_RISI	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I
0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00

EGG_RISK	1ST_DRIVE	2ND_DRIV	PASTURE_	FISH_CON	WATER_CONC
0.0e+00	INHALATION	0.0e+00	0.0e+00	0.0e+00	
0.0e+00	INHALATION	0.0e+00	0.0e+00	0.0e+00	
0.0e+00	INHALATION	0.0e+00	0.0e+00	0.0e+00	
0.0e+00	INHALATION	0.0e+00	0.0e+00	0.0e+00	

Section 5. Operations HRA

Presents the AERMOD model inputs and outputs for the operational HRA for the no Project and Project analyses. The operational HRA includes emissions contribution from San Joaquins operation (train movement and idling), emergency generators, and on-road (bus and truck) sources. Emission density calculations for these sources are included in the section.

Section 5.1 No Project

For idling, we should use 5 minutes per state law. So it would be truck trips per year * 5 minutes per trip.

Bus Bridge PM10 Exhaust Running Emissions	
596.5787849	grams/year
1.89694E-05	**grams/second**
8.4E-10	**grams/second/m^2**

For idling, we should use 5 minutes per state law. So it would be truck trips per year * 5 minutes per trip.

Connecting Transit PM10 Exhaust Running Emissions		
22.00781454	grams/year	downtown Merced bus service
6.9978E-07	**grams/second**	
2E-11	**grams/second/m^2**	

Connecting Transit PM10 Exhaust Idling Emissions		
5.934581416	grams/year	@ existing Merced train station
1.88701E-07	**grams/second**	

Mobile Conversions

12	months per year
52	weeks per year
7	days per week
24	hours per day
60	minutes per hour
60	seconds per minute
31449600	seconds per year
3.335956	miles per trip per day for Connecting Transit bus service in downtown Merced
5368.7	meters per trip per day for Connecting Transit bus service in downtown Merced
7	meters width for roads
5	meters width for train tracks
4.801708	miles per roundtrip per day for 8 train Project passenger rail service
7727.6	meters per roundtrip per day for 8 train Project passenger rail service
4.641705	miles per roundtrip for H2 delivery via truck for H2 Variant
7470.1	meters per roundtrip for H2 delivery via truck for H2 Variant
4.436217	miles per roundtrip for H2 delivery via rail for H3 Variant
7139.4	meters per roundtrip for H2 delivery via rail for H3 Variant
1609.344	meters per mile
5	minutes idling per trip

Generator Conversions

365	days per year
24	hours per day
60	minutes per hour
60	seconds per minute
907185	grams per ton

Generator PM10 Emissions (for the 769 horsepower generator at LMF)

4.54E-05 grams per second

Hydrogen delivery via rail PM10 Exhaust Running Emissions

30.19	grams/year
9.59839E-07	**grams/second**
2.68885E-11	**grams/second/m^2**

Hydrogen delivery via truck PM10 Exhaust Running Emissions

0.0643868	grams/year
2.0473E-09	**grams/second**
3.91523E-14	**grams/second/m^2**

Locomotive Movement PM10 Exhaust Running Emissions			
	1116.329591	grams/year	Future No Project 8 tra
	3.54958E-05	**grams/second**	
	1.84E-09	**grams/second/m^2**	

Locomotive PM10 Exhaust Idling Emissions @ existing Merced Station			
	835.6415221	grams/year	at existing Merced trai
	2.65708E-05	**grams/second**	

Locomotive PM10 Exhaust Idling Emissions @ future LMF			
	1253.462283	grams/year	at future LMF
	3.98562E-05	**grams/second**	

Locomotive Movement PM10 Exhaust Running Emissions			
	688.4448706	grams/year	Future No Project Hydı
	2.18904E-05	**grams/second**	
	1.13E-09	**grams/second/m^2**	

Locomotive PM10 Exhaust Idling Emissions @ existing Merced Station			
	522.2759513	grams/year	at existing Merced trai
	1.66068E-05	**grams/second**	

Locomotive PM10 Exhaust Idling Emissions @ future LMF			
	783.413927	grams/year	at future LMF
	2.49101E-05	**grams/second**	

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/30/2024
** File: C:\Lakes\AERMOD View\MITC Ops HRA No Project\MITC Ops HRA No Project.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE MITC No Project Operational HRA
   MODELOPT CONC FASTAREA
   AVERTIME ANNUAL
   URBANOPT 86333 MERCED_US_CENSUS_2020
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "MITC Ops HRA No Project.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   719851.101  4132574.523       48.690
** DESCRSRC LMF
   LOCATION AREA1        AREA       722155.113  4131370.737       51.620
** DESCRSRC HSR Platform
   LOCATION PAREA2       AREAPOLY   722427.265  4131309.632       51.080
** DESCRSRC HSR station Parking
   LOCATION STCK1        POINT      720966.549  4132411.244       49.410
** DESCRSRC LMF generator
** ---------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN1
** DESCRSRC Connecting Transit bus route
** PREFIX
** Length of Side = 7.00
** Ratio = 10
```

```
** Vertical Dimension = 3.16
** Emission Rate = 1.862E-11
** Nodes = 8
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** 723502.960, 4131958.433, 52.25, 3.40
** 723331.642, 4131557.539, 52.04, 3.40
** 721846.528, 4132196.169, 51.14, 3.40
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** 722716.898, 4131295.866, 51.20, 3.40
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   LOCATION A0000011     AREA     723300.638 4131113.324 52.29
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   LOCATION A0000016     AREA     723432.292 4131414.542 52.21
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   LOCATION A0000032     AREA     723377.371 4131673.456 52.10
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   LOCATION A0000075     AREA     722278.354 4131477.650 51.05
   LOCATION A0000076     AREA     722340.808 4131451.220 51.04
   LOCATION A0000077     AREA     722403.263 4131424.791 51.04
   LOCATION A0000078     AREA     722465.717 4131398.361 51.09
   LOCATION A0000079     AREA     722528.171 4131371.932 51.16
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** End of LINE AREA Source ID = ARLN1
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** DESCRSRC MITC No Project locomotive idling at existing Merced station
   LOCATION STCK3        POINT      723623.916  4131966.627       53.020
** DESCRSRC MITC NoProj H2 Variants locomotive idling at existing Merced station
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** Line Source Represented by Area Sources
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** LINE AREA Source ID = ARLN2
** DESCRSRC MITC No Project locomotive movement emissions daytime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 1.8373E-09
** Nodes = 6
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** 721647.665, 4132808.800, 51.10, 4.80
** 721353.405, 4132938.949, 50.81, 4.80
** 721065.033, 4133092.588, 50.24, 4.80
** 720897.666, 4133196.443, 50.39, 4.80
** 720396.841, 4133564.764, 49.65, 4.80
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   LOCATION A0000144     AREA     723549.475 4132002.367 52.80
   LOCATION A0000145     AREA     723504.217 4132021.623 52.72
   LOCATION A0000146     AREA     723458.959 4132040.878 52.64
   LOCATION A0000147     AREA     723413.701 4132060.134 52.33
   LOCATION A0000148     AREA     723368.443 4132079.389 52.42
   LOCATION A0000149     AREA     723323.185 4132098.645 52.49
   LOCATION A0000150     AREA     723277.928 4132117.900 52.59
   LOCATION A0000151     AREA     723232.670 4132137.156 52.23
   LOCATION A0000152     AREA     723187.412 4132156.411 52.04
   LOCATION A0000153     AREA     723142.154 4132175.667 52.01
   LOCATION A0000154     AREA     723096.896 4132194.923 52.02
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   LOCATION A0000156     AREA     723006.380 4132233.434 51.82
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   LOCATION A0000159     AREA     722870.607 4132291.200 51.40
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   LOCATION A0000161     AREA     722780.091 4132329.711 51.26
   LOCATION A0000162     AREA     722734.833 4132348.967 51.21
   LOCATION A0000163     AREA     722689.575 4132368.222 51.23
   LOCATION A0000164     AREA     722644.317 4132387.478 51.25
   LOCATION A0000165     AREA     722599.059 4132406.734 51.51
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   LOCATION A0000167     AREA     722508.544 4132445.245 51.60
   LOCATION A0000168     AREA     722463.286 4132464.500 51.75
   LOCATION A0000169     AREA     722418.028 4132483.756 51.83
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   LOCATION A0000184     AREA     721739.160 4132772.589 51.23
   LOCATION A0000185     AREA     721693.902 4132791.844 51.07
   LOCATION A0000186     AREA     721648.676 4132811.086 51.11
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   LOCATION A0000205     AREA     720860.622 4133226.790 50.32
   LOCATION A0000206     AREA     720822.097 4133255.122 50.33
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   LOCATION A0000208     AREA     720745.047 4133311.787 50.41
   LOCATION A0000209     AREA     720706.522 4133340.119 50.35
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   LOCATION A0000211     AREA     720629.472 4133396.784 50.16
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** End of LINE AREA Source ID = ARLN2
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN3
** DESCRSRC MITC NoProj H2 Variants locomotive movement emissions daytime
** PREFIX
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** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 1.1331E-09
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** 721065.033, 4133092.588, 50.24, 4.80
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   LOCATION A0000263     AREA     722692.045 4132368.861 51.24
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** End of LINE AREA Source ID = ARLN3
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN7
** DESCRSRC MITC No Project locomotive movement emissions nighttime
** PREFIX
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** Ratio = 10
** Vertical Dimension = 8.54
** Emission Rate = 1.8373E-09
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** 721514.986, 4132867.193, 50.68, 18.40
** 721278.841, 4132978.735, 50.35, 18.40
** 721065.033, 4133092.588, 50.24, 18.40
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** 720396.841, 4133564.764, 49.65, 18.40
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   LOCATION A0000624     AREA     721397.981 4132925.225 50.72
   LOCATION A0000625     AREA     721358.623 4132943.815 50.78
   LOCATION A0000626     AREA     721319.266 4132962.405 50.64
   LOCATION A0000627     AREA     721280.016 4132980.942 50.29
   LOCATION A0000628     AREA     721237.254 4133003.712 50.00
   LOCATION A0000629     AREA     721194.493 4133026.483 49.99
   LOCATION A0000630     AREA     721151.731 4133049.253 49.89
   LOCATION A0000631     AREA     721108.970 4133072.024 50.56
   LOCATION A0000632     AREA     721066.351 4133094.712 50.21
   LOCATION A0000633     AREA     721024.509 4133120.676 49.94
   LOCATION A0000634     AREA     720982.668 4133146.640 50.06
   LOCATION A0000635     AREA     720940.826 4133172.604 50.29
   LOCATION A0000636     AREA     720899.147 4133198.457 50.35
   LOCATION A0000637     AREA     720860.622 4133226.790 50.32
   LOCATION A0000638     AREA     720822.097 4133255.122 50.33
   LOCATION A0000639     AREA     720783.572 4133283.454 50.34
   LOCATION A0000640     AREA     720745.047 4133311.787 50.41
   LOCATION A0000641     AREA     720706.522 4133340.119 50.35
   LOCATION A0000642     AREA     720667.997 4133368.451 49.95
   LOCATION A0000643     AREA     720629.472 4133396.784 50.16
   LOCATION A0000644     AREA     720590.947 4133425.116 50.05
   LOCATION A0000645     AREA     720552.422 4133453.448 49.94
   LOCATION A0000646     AREA     720513.897 4133481.781 49.79
   LOCATION A0000647     AREA     720475.372 4133510.113 49.85
   LOCATION A0000648     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN7
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN8
** DESCRSRC MITC NoProj H2 Variants locomotive movement emissions nighttime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 8.54
** Emission Rate = 1.1331E-09
** Nodes = 6
** 723639.783, 4131961.425, 53.07, 18.40
** 721440.125, 4132898.989, 50.66, 18.40
** 721218.949, 4133009.573, 50.15, 18.40
** 721065.033, 4133092.588, 50.24, 18.40
** 720897.666, 4133196.443, 50.39, 18.40
** 720396.841, 4133564.764, 49.65, 18.40
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   LOCATION A0000656     AREA     723640.763 4131963.724 53.01
   LOCATION A0000657     AREA     723594.937 4131983.257 52.96
   LOCATION A0000658     AREA     723549.111 4132002.790 52.79
   LOCATION A0000659     AREA     723503.285 4132022.322 52.72
   LOCATION A0000660     AREA     723457.458 4132041.855 52.64
   LOCATION A0000661     AREA     723411.632 4132061.387 52.33
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LOCATION A0000662 AREA 723365.806 4132080.920 52.42
LOCATION A0000663 AREA 723319.980 4132100.452 52.52
LOCATION A0000664 AREA 723274.153 4132119.985 52.59
LOCATION A0000665 AREA 723228.327 4132139.518 52.19
LOCATION A0000666 AREA 723182.501 4132159.050 52.06
LOCATION A0000667 AREA 723136.675 4132178.583 51.98
LOCATION A0000668 AREA 723090.849 4132198.115 52.00
LOCATION A0000669 AREA 723045.022 4132217.648 51.94
LOCATION A0000670 AREA 722999.196 4132237.181 51.79
LOCATION A0000671 AREA 722953.370 4132256.713 51.73
LOCATION A0000672 AREA 722907.544 4132276.246 51.61
LOCATION A0000673 AREA 722861.718 4132295.778 51.37
LOCATION A0000674 AREA 722815.891 4132315.311 51.32
LOCATION A0000675 AREA 722770.065 4132334.843 51.25
LOCATION A0000676 AREA 722724.239 4132354.376 51.21
LOCATION A0000677 AREA 722678.413 4132373.909 51.23
LOCATION A0000678 AREA 722632.587 4132393.441 51.27
LOCATION A0000679 AREA 722586.760 4132412.974 51.58
LOCATION A0000680 AREA 722540.934 4132432.506 51.56
LOCATION A0000681 AREA 722495.108 4132452.039 51.66
LOCATION A0000682 AREA 722449.282 4132471.572 51.75
LOCATION A0000683 AREA 722403.456 4132491.104 51.81
LOCATION A0000684 AREA 722357.629 4132510.637 51.84
LOCATION A0000685 AREA 722311.803 4132530.169 51.81
LOCATION A0000686 AREA 722265.977 4132549.702 51.85
LOCATION A0000687 AREA 722220.151 4132569.235 51.95
LOCATION A0000688 AREA 722174.325 4132588.767 52.32
LOCATION A0000689 AREA 722128.498 4132608.300 52.29
LOCATION A0000690 AREA 722082.672 4132627.832 52.49
LOCATION A0000691 AREA 722036.846 4132647.365 52.55
LOCATION A0000692 AREA 721991.020 4132666.897 51.70
LOCATION A0000693 AREA 721945.194 4132686.430 49.88
LOCATION A0000694 AREA 721899.367 4132705.963 51.88
LOCATION A0000695 AREA 721853.541 4132725.495 51.65
LOCATION A0000696 AREA 721807.715 4132745.028 51.34
LOCATION A0000697 AREA 721761.889 4132764.560 51.21
LOCATION A0000698 AREA 721716.063 4132784.093 51.20
LOCATION A0000699 AREA 721670.236 4132803.626 51.16
LOCATION A0000700 AREA 721624.410 4132823.158 50.98
LOCATION A0000701 AREA 721578.584 4132842.691 50.94
LOCATION A0000702 AREA 721532.758 4132862.223 50.80
LOCATION A0000703 AREA 721486.932 4132881.756 50.73
LOCATION A0000704 AREA 721441.243 4132901.225 50.65
LOCATION A0000705 AREA 721397.008 4132923.342 50.70
LOCATION A0000706 AREA 721352.773 4132945.458 50.80
LOCATION A0000707 AREA 721308.537 4132967.575 50.54
LOCATION A0000708 AREA 721264.302 4132989.692 50.10
LOCATION A0000709 AREA 721220.136 4133011.773 50.09
LOCATION A0000710 AREA 721181.657 4133032.527 49.98
LOCATION A0000711 AREA 721143.178 4133053.281 49.92

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   LOCATION A0000712     AREA     721104.699 4133074.034 50.66
   LOCATION A0000713     AREA     721066.351 4133094.712 50.21
   LOCATION A0000714     AREA     721024.509 4133120.676 49.94
   LOCATION A0000715     AREA     720982.668 4133146.640 50.06
   LOCATION A0000716     AREA     720940.826 4133172.604 50.29
   LOCATION A0000717     AREA     720899.147 4133198.457 50.35
   LOCATION A0000718     AREA     720860.622 4133226.790 50.32
   LOCATION A0000719     AREA     720822.097 4133255.122 50.33
   LOCATION A0000720     AREA     720783.572 4133283.454 50.34
   LOCATION A0000721     AREA     720745.047 4133311.787 50.41
   LOCATION A0000722     AREA     720706.522 4133340.119 50.35
   LOCATION A0000723     AREA     720667.997 4133368.451 49.95
   LOCATION A0000724     AREA     720629.472 4133396.784 50.16
   LOCATION A0000725     AREA     720590.947 4133425.116 50.05
   LOCATION A0000726     AREA     720552.422 4133453.448 49.94
   LOCATION A0000727     AREA     720513.897 4133481.781 49.79
   LOCATION A0000728     AREA     720475.372 4133510.113 49.85
   LOCATION A0000729     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN8
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN4
** DESCRSRC No Project Variant H2 offsite hydrogen delivery via truck inbound
** PREFIX
** Length of Side = 7.00
** Ratio = 10
** Vertical Dimension = 3.16
** Emission Rate = 3.9152E-14
** Nodes = 19
** 723046.113, 4130794.654, 53.98, 3.40
** 722368.388, 4131085.773, 54.29, 3.40
** 722091.458, 4131238.858, 53.51, 3.40
** 722048.456, 4131274.979, 53.47, 3.40
** 721730.245, 4131393.664, 53.99, 3.40
** 721675.203, 4131407.424, 54.01, 3.40
** 721534.158, 4131465.906, 53.43, 3.40
** 721656.282, 4131747.996, 51.04, 3.40
** 721105.900, 4132002.864, 51.30, 3.40
** 720921.847, 4132042.427, 50.37, 3.40
** 720756.715, 4132088.870, 49.93, 3.40
** 720763.481, 4132122.016, 49.73, 3.40
** 720677.914, 4132153.707, 49.43, 3.40
** 720535.040, 4132211.369, 49.61, 3.40
** 720427.176, 4132371.078, 49.18, 3.40
** 720385.257, 4132402.367, 49.89, 3.40
** 720407.379, 4132425.228, 49.05, 3.40
** 720403.558, 4132512.307, 49.19, 3.40
** 720476.917, 4132512.680, 49.05, 3.40
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   LOCATION A0000342     AREA     723047.494 4130797.870 54.01
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LOCATION A0000343 AREA 722985.883 4130824.336 54.16
LOCATION A0000344 AREA 722924.271 4130850.801 54.64
LOCATION A0000345 AREA 722862.660 4130877.266 54.06
LOCATION A0000346 AREA 722801.049 4130903.732 54.24
LOCATION A0000347 AREA 722739.437 4130930.197 54.08
LOCATION A0000348 AREA 722677.826 4130956.662 54.25
LOCATION A0000349 AREA 722616.215 4130983.127 54.26
LOCATION A0000350 AREA 722554.603 4131009.593 54.26
LOCATION A0000351 AREA 722492.992 4131036.058 54.14
LOCATION A0000352 AREA 722431.381 4131062.523 54.27
LOCATION A0000353 AREA 722370.081 4131088.836 54.29
LOCATION A0000354 AREA 722314.695 4131119.453 54.26
LOCATION A0000355 AREA 722259.309 4131150.070 54.19
LOCATION A0000356 AREA 722203.923 4131180.687 54.08
LOCATION A0000357 AREA 722148.537 4131211.304 53.78
LOCATION A0000358 AREA 722093.709 4131241.538 53.63
LOCATION A0000359 AREA 722049.680 4131278.259 53.40
LOCATION A0000360 AREA 721986.037 4131301.996 53.65
LOCATION A0000361 AREA 721922.395 4131325.732 53.76
LOCATION A0000362 AREA 721858.753 4131349.469 53.80
LOCATION A0000363 AREA 721795.110 4131373.206 53.85
LOCATION A0000364 AREA 721731.094 4131397.059 53.90
LOCATION A0000365 AREA 721676.544 4131410.657 54.00
LOCATION A0000366 AREA 721629.529 4131430.151 53.70
LOCATION A0000367 AREA 721582.514 4131449.645 53.58
LOCATION A0000368 AREA 721537.370 4131464.516 53.45
LOCATION A0000369 AREA 721561.795 4131520.934 52.63
LOCATION A0000370 AREA 721586.220 4131577.352 51.86
LOCATION A0000371 AREA 721610.645 4131633.770 51.24
LOCATION A0000372 AREA 721635.070 4131690.188 51.02
LOCATION A0000373 AREA 721657.753 4131751.172 51.03
LOCATION A0000374 AREA 721596.600 4131779.491 51.03
LOCATION A0000375 AREA 721535.446 4131807.810 50.99
LOCATION A0000376 AREA 721474.292 4131836.128 51.18
LOCATION A0000377 AREA 721413.139 4131864.447 51.41
LOCATION A0000378 AREA 721351.985 4131892.765 51.31
LOCATION A0000379 AREA 721290.832 4131921.084 50.81
LOCATION A0000380 AREA 721229.678 4131949.403 51.26
LOCATION A0000381 AREA 721168.524 4131977.721 51.48
LOCATION A0000382 AREA 721106.636 4132006.286 51.35
LOCATION A0000383 AREA 721045.284 4132019.473 50.74
LOCATION A0000384 AREA 720983.933 4132032.661 50.49
LOCATION A0000385 AREA 720922.794 4132045.796 50.30
LOCATION A0000386 AREA 720867.751 4132061.277 50.16
LOCATION A0000387 AREA 720812.707 4132076.758 50.00
LOCATION A0000388 AREA 720760.144 4132088.170 49.99
LOCATION A0000389 AREA 720764.696 4132125.298 49.73
LOCATION A0000390 AREA 720721.913 4132141.144 49.55
LOCATION A0000391 AREA 720679.224 4132156.953 49.43
LOCATION A0000392 AREA 720631.599 4132176.174 49.42

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   LOCATION A0000393     AREA     720583.975 4132195.394 49.40
   LOCATION A0000394     AREA     720537.941 4132213.328 49.50
   LOCATION A0000395     AREA     720501.986 4132266.564 49.45
   LOCATION A0000396     AREA     720466.031 4132319.801 49.42
   LOCATION A0000397     AREA     720429.270 4132373.883 49.10
   LOCATION A0000398     AREA     720387.772 4132399.933 49.71
   LOCATION A0000399     AREA     720410.876 4132425.382 49.06
   LOCATION A0000400     AREA     720408.965 4132468.921 49.13
   LOCATION A0000401     AREA     720403.575 4132508.807 49.18
   LOCATION A0000402     AREA     720440.255 4132508.993 49.19
** End of LINE AREA Source ID = ARLN4
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN6
** DESCRSRC No Project Variant H2 offsite hydrogen delivery via truck outbound
** PREFIX
** Length of Side = 7.00
** Ratio = 10
** Vertical Dimension = 3.16
** Emission Rate = 3.9152E-14
** Nodes = 13
** 723622.989, 4130910.030, 52.58, 3.40
** 721656.282, 4131747.996, 51.04, 3.40
** 721105.900, 4132002.864, 51.30, 3.40
** 720921.847, 4132042.427, 50.37, 3.40
** 720756.715, 4132088.870, 49.93, 3.40
** 720763.481, 4132122.016, 49.73, 3.40
** 720677.914, 4132153.707, 49.43, 3.40
** 720535.040, 4132211.369, 49.61, 3.40
** 720427.176, 4132371.078, 49.18, 3.40
** 720385.257, 4132402.367, 49.89, 3.40
** 720407.379, 4132425.228, 49.05, 3.40
** 720403.558, 4132512.307, 49.19, 3.40
** 720476.917, 4132512.680, 49.05, 3.40
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   LOCATION A0000513     AREA     723624.361 4130913.250 52.58
   LOCATION A0000514     AREA     723560.919 4130940.281 52.59
   LOCATION A0000515     AREA     723497.477 4130967.312 52.74
   LOCATION A0000516     AREA     723434.035 4130994.343 52.86
   LOCATION A0000517     AREA     723370.593 4131021.374 52.81
   LOCATION A0000518     AREA     723307.151 4131048.406 52.54
   LOCATION A0000519     AREA     723243.708 4131075.437 52.14
   LOCATION A0000520     AREA     723180.266 4131102.468 51.70
   LOCATION A0000521     AREA     723116.824 4131129.499 51.37
   LOCATION A0000522     AREA     723053.382 4131156.530 51.26
   LOCATION A0000523     AREA     722989.940 4131183.562 51.24
   LOCATION A0000524     AREA     722926.498 4131210.593 51.22
   LOCATION A0000525     AREA     722863.055 4131237.624 51.22
   LOCATION A0000526     AREA     722799.613 4131264.655 51.22
   LOCATION A0000527     AREA     722736.171 4131291.686 51.21
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   LOCATION A0000528     AREA     722672.729 4131318.717 51.21
   LOCATION A0000529     AREA     722609.287 4131345.749 51.21
   LOCATION A0000530     AREA     722545.845 4131372.780 51.18
   LOCATION A0000531     AREA     722482.402 4131399.811 51.12
   LOCATION A0000532     AREA     722418.960 4131426.842 51.05
   LOCATION A0000533     AREA     722355.518 4131453.873 51.05
   LOCATION A0000534     AREA     722292.076 4131480.904 51.05
   LOCATION A0000535     AREA     722228.634 4131507.936 51.05
   LOCATION A0000536     AREA     722165.192 4131534.967 51.05
   LOCATION A0000537     AREA     722101.750 4131561.998 51.05
   LOCATION A0000538     AREA     722038.307 4131589.029 51.05
   LOCATION A0000539     AREA     721974.865 4131616.060 51.05
   LOCATION A0000540     AREA     721911.423 4131643.092 51.04
   LOCATION A0000541     AREA     721847.981 4131670.123 51.03
   LOCATION A0000542     AREA     721784.539 4131697.154 51.02
   LOCATION A0000543     AREA     721721.097 4131724.185 51.01
   LOCATION A0000544     AREA     721657.753 4131751.172 51.03
   LOCATION A0000545     AREA     721596.600 4131779.491 51.03
   LOCATION A0000546     AREA     721535.446 4131807.810 50.99
   LOCATION A0000547     AREA     721474.292 4131836.128 51.18
   LOCATION A0000548     AREA     721413.139 4131864.447 51.41
   LOCATION A0000549     AREA     721351.985 4131892.765 51.31
   LOCATION A0000550     AREA     721290.832 4131921.084 50.81
   LOCATION A0000551     AREA     721229.678 4131949.403 51.26
   LOCATION A0000552     AREA     721168.524 4131977.721 51.48
   LOCATION A0000553     AREA     721106.636 4132006.286 51.35
   LOCATION A0000554     AREA     721045.284 4132019.473 50.74
   LOCATION A0000555     AREA     720983.933 4132032.661 50.49
   LOCATION A0000556     AREA     720922.794 4132045.796 50.30
   LOCATION A0000557     AREA     720867.751 4132061.277 50.16
   LOCATION A0000558     AREA     720812.707 4132076.758 50.00
   LOCATION A0000559     AREA     720760.144 4132088.170 49.99
   LOCATION A0000560     AREA     720764.696 4132125.298 49.73
   LOCATION A0000561     AREA     720721.913 4132141.144 49.55
   LOCATION A0000562     AREA     720679.224 4132156.953 49.43
   LOCATION A0000563     AREA     720631.599 4132176.174 49.42
   LOCATION A0000564     AREA     720583.975 4132195.394 49.40
   LOCATION A0000565     AREA     720537.941 4132213.328 49.50
   LOCATION A0000566     AREA     720501.986 4132266.564 49.45
   LOCATION A0000567     AREA     720466.031 4132319.801 49.42
   LOCATION A0000568     AREA     720429.270 4132373.883 49.10
   LOCATION A0000569     AREA     720387.772 4132399.933 49.71
   LOCATION A0000570     AREA     720410.876 4132425.382 49.06
   LOCATION A0000571     AREA     720408.965 4132468.921 49.13
   LOCATION A0000572     AREA     720403.575 4132508.807 49.18
   LOCATION A0000573     AREA     720440.255 4132508.993 49.19
** End of LINE AREA Source ID = ARLN6
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN5
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** DESCRSRC No Project Variant H3 offsite hydrogen delivery via rail
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 2.6889E-11
** Nodes = 14
** 723246.426, 4130987.536, 52.58, 4.80
** 721233.332, 4131849.709, 51.13, 4.80
** 721191.915, 4131882.250, 50.85, 4.80
** 721155.083, 4131919.883, 51.22, 4.80
** 721118.251, 4131975.931, 51.56, 4.80
** 721093.430, 4132026.374, 50.62, 4.80
** 721079.018, 4132063.206, 50.44, 4.80
** 721068.609, 4132155.285, 50.24, 4.80
** 721065.689, 4132512.870, 49.79, 4.80
** 721029.594, 4132563.403, 49.71, 4.80
** 720971.843, 4132592.278, 49.78, 4.80
** 720847.316, 4132586.864, 49.58, 4.80
** 720780.541, 4132570.622, 49.15, 4.80
** 720439.445, 4132559.793, 49.03, 4.80
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   LOCATION A0000434     AREA     723247.411 4130989.834 52.57
   LOCATION A0000435     AREA     723201.658 4131009.429 52.14
   LOCATION A0000436     AREA     723155.906 4131029.024 51.62
   LOCATION A0000437     AREA     723110.154 4131048.618 51.23
   LOCATION A0000438     AREA     723064.402 4131068.213 51.11
   LOCATION A0000439     AREA     723018.650 4131087.808 51.10
   LOCATION A0000440     AREA     722972.898 4131107.403 51.09
   LOCATION A0000441     AREA     722927.146 4131126.998 51.09
   LOCATION A0000442     AREA     722881.394 4131146.593 51.10
   LOCATION A0000443     AREA     722835.641 4131166.188 51.09
   LOCATION A0000444     AREA     722789.889 4131185.782 51.09
   LOCATION A0000445     AREA     722744.137 4131205.377 51.10
   LOCATION A0000446     AREA     722698.385 4131224.972 51.09
   LOCATION A0000447     AREA     722652.633 4131244.567 51.10
   LOCATION A0000448     AREA     722606.881 4131264.162 51.10
   LOCATION A0000449     AREA     722561.129 4131283.757 51.09
   LOCATION A0000450     AREA     722515.376 4131303.352 51.09
   LOCATION A0000451     AREA     722469.624 4131322.946 51.09
   LOCATION A0000452     AREA     722423.872 4131342.541 51.07
   LOCATION A0000453     AREA     722378.120 4131362.136 51.06
   LOCATION A0000454     AREA     722332.368 4131381.731 51.04
   LOCATION A0000455     AREA     722286.616 4131401.326 51.04
   LOCATION A0000456     AREA     722240.864 4131420.921 51.04
   LOCATION A0000457     AREA     722195.111 4131440.516 51.04
   LOCATION A0000458     AREA     722149.359 4131460.110 51.04
   LOCATION A0000459     AREA     722103.607 4131479.705 51.04
   LOCATION A0000460     AREA     722057.855 4131499.300 51.04
   LOCATION A0000461     AREA     722012.103 4131518.895 51.04
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LOCATION A0000462 AREA 721966.351 4131538.490 51.03
LOCATION A0000463 AREA 721920.599 4131558.085 51.03
LOCATION A0000464 AREA 721874.846 4131577.680 51.02
LOCATION A0000465 AREA 721829.094 4131597.274 51.02
LOCATION A0000466 AREA 721783.342 4131616.869 51.02
LOCATION A0000467 AREA 721737.590 4131636.464 51.02
LOCATION A0000468 AREA 721691.838 4131656.059 51.00
LOCATION A0000469 AREA 721646.086 4131675.654 51.01
LOCATION A0000470 AREA 721600.334 4131695.249 51.01
LOCATION A0000471 AREA 721554.581 4131714.844 50.97
LOCATION A0000472 AREA 721508.829 4131734.438 51.01
LOCATION A0000473 AREA 721463.077 4131754.033 51.21
LOCATION A0000474 AREA 721417.325 4131773.628 51.09
LOCATION A0000475 AREA 721371.573 4131793.223 51.06
LOCATION A0000476 AREA 721325.821 4131812.818 51.12
LOCATION A0000477 AREA 721280.069 4131832.413 51.10
LOCATION A0000478 AREA 721234.877 4131851.675 51.14
LOCATION A0000479 AREA 721214.168 4131867.946 51.07
LOCATION A0000480 AREA 721193.701 4131883.999 50.87
LOCATION A0000481 AREA 721175.286 4131902.815 50.90
LOCATION A0000482 AREA 721157.172 4131921.256 51.22
LOCATION A0000483 AREA 721138.757 4131949.280 51.42
LOCATION A0000484 AREA 721120.495 4131977.035 51.56
LOCATION A0000485 AREA 721108.084 4132002.256 51.39
LOCATION A0000486 AREA 721095.758 4132027.285 51.00
LOCATION A0000487 AREA 721081.502 4132063.487 50.44
LOCATION A0000488 AREA 721076.297 4132109.526 50.38
LOCATION A0000489 AREA 721071.109 4132155.306 50.16
LOCATION A0000490 AREA 721070.744 4132200.004 50.24
LOCATION A0000491 AREA 721070.379 4132244.702 49.93
LOCATION A0000492 AREA 721070.014 4132289.400 49.85
LOCATION A0000493 AREA 721069.649 4132334.098 49.71
LOCATION A0000494 AREA 721069.284 4132378.796 49.76
LOCATION A0000495 AREA 721068.919 4132423.494 49.79
LOCATION A0000496 AREA 721068.554 4132468.192 49.82
LOCATION A0000497 AREA 721067.724 4132514.323 49.80
LOCATION A0000498 AREA 721049.676 4132539.589 49.70
LOCATION A0000499 AREA 721030.713 4132565.639 49.72
LOCATION A0000500 AREA 721001.837 4132580.077 49.81
LOCATION A0000501 AREA 720971.734 4132594.776 49.83
LOCATION A0000502 AREA 720930.225 4132592.971 49.74
LOCATION A0000503 AREA 720888.716 4132591.167 49.70
LOCATION A0000504 AREA 720846.725 4132589.293 49.58
LOCATION A0000505 AREA 720813.337 4132581.172 49.47
LOCATION A0000506 AREA 720780.461 4132573.120 49.26
LOCATION A0000507 AREA 720731.733 4132571.573 49.19
LOCATION A0000508 AREA 720683.005 4132570.026 49.04
LOCATION A0000509 AREA 720634.277 4132568.480 48.93
LOCATION A0000510 AREA 720585.550 4132566.933 48.85
LOCATION A0000511 AREA 720536.822 4132565.386 48.74

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   LOCATION A0000512     AREA     720488.094 4132563.839 48.88
** End of LINE AREA Source ID = ARLN5
   LOCATION STCK4        POINT      720781.280  4132562.310       49.150
** DESCRSRC MITC No Project locomotive idling at future LMF
   LOCATION STCK5        POINT      720781.347  4132562.407       49.150
** DESCRSRC MITC No Project H2 Variants locomotive idling at future LMF
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN9
** DESCRSRC MITC No Project bus bridge
** PREFIX
** Length of Side = 7.00
** Ratio = 10
** Vertical Dimension = 3.16
** Emission Rate = 8.4161E-10
** Nodes = 11
** 722717.097, 4131293.574, 51.20, 3.40
** 723273.614, 4131055.308, 52.37, 3.40
** 723639.752, 4131898.192, 52.43, 3.40
** 723629.795, 4131904.671, 52.72, 3.40
** 723634.062, 4131915.102, 52.90, 3.40
** 723634.379, 4131924.110, 52.98, 3.40
** 723579.381, 4131946.551, 52.54, 3.40
** 723570.847, 4131928.061, 52.25, 3.40
** 723634.853, 4131897.876, 52.42, 3.40
** 723274.385, 4131062.446, 52.34, 3.40
** 722718.139, 4131295.262, 51.20, 3.40
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   LOCATION A0000738     AREA     722715.719 4131290.356 51.20
   LOCATION A0000739     AREA     722777.555 4131263.882 51.20
   LOCATION A0000740     AREA     722839.390 4131237.408 51.21
   LOCATION A0000741     AREA     722901.225 4131210.934 51.20
   LOCATION A0000742     AREA     722963.060 4131184.460 51.20
   LOCATION A0000743     AREA     723024.896 4131157.986 51.23
   LOCATION A0000744     AREA     723086.731 4131131.512 51.28
   LOCATION A0000745     AREA     723148.566 4131105.038 51.50
   LOCATION A0000746     AREA     723210.401 4131078.564 51.92
   LOCATION A0000747     AREA     723276.824 4131053.913 52.39
   LOCATION A0000748     AREA     723302.977 4131114.119 52.30
   LOCATION A0000749     AREA     723329.130 4131174.325 52.25
   LOCATION A0000750     AREA     723355.283 4131234.531 52.21
   LOCATION A0000751     AREA     723381.435 4131294.737 52.19
   LOCATION A0000752     AREA     723407.588 4131354.943 52.20
   LOCATION A0000753     AREA     723433.741 4131415.149 52.22
   LOCATION A0000754     AREA     723459.893 4131475.355 52.23
   LOCATION A0000755     AREA     723486.046 4131535.561 52.24
   LOCATION A0000756     AREA     723512.199 4131595.767 52.25
   LOCATION A0000757     AREA     723538.351 4131655.973 52.25
   LOCATION A0000758     AREA     723564.504 4131716.179 52.24
   LOCATION A0000759     AREA     723590.657 4131776.385 52.26
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   LOCATION A0000763     AREA     723637.560 4131914.979 52.81
   LOCATION A0000764     AREA     723635.701 4131927.351 53.00
   LOCATION A0000765     AREA     723576.203 4131948.018 52.67
   LOCATION A0000766     AREA     723569.354 4131924.895 52.26
   LOCATION A0000767     AREA     723601.357 4131909.803 52.46
   LOCATION A0000768     AREA     723631.639 4131899.262 52.48
   LOCATION A0000769     AREA     723603.911 4131834.998 52.26
   LOCATION A0000770     AREA     723576.182 4131770.735 52.25
   LOCATION A0000771     AREA     723548.454 4131706.471 52.26
   LOCATION A0000772     AREA     723520.726 4131642.207 52.26
   LOCATION A0000773     AREA     723492.997 4131577.943 52.27
   LOCATION A0000774     AREA     723465.269 4131513.679 52.24
   LOCATION A0000775     AREA     723437.541 4131449.415 52.22
   LOCATION A0000776     AREA     723409.813 4131385.152 52.19
   LOCATION A0000777     AREA     723382.084 4131320.888 52.18
   LOCATION A0000778     AREA     723354.356 4131256.624 52.18
   LOCATION A0000779     AREA     723326.628 4131192.360 52.21
   LOCATION A0000780     AREA     723298.899 4131128.096 52.25
   LOCATION A0000781     AREA     723275.736 4131065.674 52.34
   LOCATION A0000782     AREA     723213.931 4131091.543 51.92
   LOCATION A0000783     AREA     723152.126 4131117.411 51.53
   LOCATION A0000784     AREA     723090.321 4131143.280 51.31
   LOCATION A0000785     AREA     723028.515 4131169.148 51.25
   LOCATION A0000786     AREA     722966.710 4131195.017 51.23
   LOCATION A0000787     AREA     722904.905 4131220.885 51.22
   LOCATION A0000788     AREA     722843.100 4131246.754 51.23
   LOCATION A0000789     AREA     722781.295 4131272.622 51.22
** End of LINE AREA Source ID = ARLN9
   LOCATION AREA2        AREA       723583.930  4131949.960       52.810
** DESCRSRC MITC No Project Connecting Transit bus idling
** Source Parameters **
   SRCPARAM PAREA1             0.0     4.100        14     3.810
   AREAVERT PAREA1       719851.101 4132574.523 720388.949 4132578.767
   AREAVERT PAREA1       720887.546 4132591.497 720929.980 4132588.314
   AREAVERT PAREA1       720986.204 4132584.071 721024.395 4132556.489
   AREAVERT PAREA1       721050.916 4132529.968 721053.038 4132489.656
   AREAVERT PAREA1       721054.098 4132353.868 720903.459 4132358.111
   AREAVERT PAREA1       720750.697 4132428.127 720497.155 4132508.751
   AREAVERT PAREA1       720341.211 4132571.341 719853.223 4132568.158
   SRCPARAM AREA1              0.0     4.100   250.000    54.000    23.180
3.810
   SRCPARAM PAREA2             0.0     4.100         4     3.810
   AREAVERT PAREA2       722427.265 4131309.632 722407.798 4131267.702
   AREAVERT PAREA2       722524.603 4131219.782 722541.076 4131269.200
   SRCPARAM STCK1        0.0000454     3.000   622.000      73.3     0.178

** LINE AREA Source ID = ARLN1
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   SRCPARAM A0000003     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000004     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000006     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000007     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000008     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000009     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000011     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000012     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000013     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000014     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000017     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000025     1.862E-11     3.400    49.857     7.000  -156.124
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   SRCPARAM A0000028     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM STCK2        0.0000265708     4.600   351.000      3.73     0.666

   SRCPARAM STCK3        0.0000166068     4.600   351.000      3.73     0.666

** LINE AREA Source ID = ARLN2
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   SRCPARAM A0000144     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000145     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000146     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000147     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000148     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000156     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000157     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000185     1.8373E-09     4.800    49.184     5.000  -156.952
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   SRCPARAM A0000186     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000187     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000188     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000189     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000190     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000191     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000192     1.8373E-09     4.800    45.965     5.000  -156.141
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   SRCPARAM A0000194     1.8373E-09     4.800    46.678     5.000  -151.952
2.250
   SRCPARAM A0000195     1.8373E-09     4.800    46.678     5.000  -151.952
2.250
   SRCPARAM A0000196     1.8373E-09     4.800    46.678     5.000  -151.952
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   SRCPARAM A0000197     1.8373E-09     4.800    46.678     5.000  -151.952
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   SRCPARAM A0000198     1.8373E-09     4.800    46.678     5.000  -151.952
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   SRCPARAM A0000199     1.8373E-09     4.800    46.678     5.000  -151.952
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   SRCPARAM A0000201     1.8373E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000202     1.8373E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000203     1.8373E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000204     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000205     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000207     1.8373E-09     4.800    47.822     5.000  -143.668
2.250
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   SRCPARAM A0000209     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000211     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000212     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000213     1.8373E-09     4.800    47.822     5.000  -143.668
2.250
   SRCPARAM A0000214     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000215     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000216     1.8373E-09     4.800    47.822     5.000  -143.668
2.250
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   SRCPARAM A0000243     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000244     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000245     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000246     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000247     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000248     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000249     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000250     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000251     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000252     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000253     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000254     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000255     1.1331E-09     4.800    49.084     5.000  -156.877
2.250
   SRCPARAM A0000256     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000258     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000259     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000263     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000264     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000265     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000266     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000267     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000275     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000276     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000277     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000278     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000279     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000281     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000284     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000285     1.1331E-09     4.800    49.084     5.000  -156.877
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   SRCPARAM A0000287     1.1331E-09     4.800    47.502     5.000  -156.792
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   SRCPARAM A0000288     1.1331E-09     4.800    47.502     5.000  -156.792
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   SRCPARAM A0000289     1.1331E-09     4.800    47.502     5.000  -156.792
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   SRCPARAM A0000290     1.1331E-09     4.800    47.502     5.000  -156.792
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   SRCPARAM A0000291     1.1331E-09     4.800    47.502     5.000  -156.792
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   SRCPARAM A0000292     1.1331E-09     4.800    47.502     5.000  -156.792
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2.250
   SRCPARAM A0000294     1.1331E-09     4.800    45.766     5.000  -151.747
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   SRCPARAM A0000295     1.1331E-09     4.800    45.766     5.000  -151.747
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   SRCPARAM A0000296     1.1331E-09     4.800    45.766     5.000  -151.747
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   SRCPARAM A0000297     1.1331E-09     4.800    45.766     5.000  -151.747
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   SRCPARAM A0000298     1.1331E-09     4.800    45.766     5.000  -151.747
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   SRCPARAM A0000302     1.1331E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000303     1.1331E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000305     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000306     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000313     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000314     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000315     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000316     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000575     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000576     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000577     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000578     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000579     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000580     1.8373E-09    18.400    49.121     5.000  -156.911
8.540
   SRCPARAM A0000581     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000582     1.8373E-09    18.400    49.121     5.000  -156.911
8.540
   SRCPARAM A0000583     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000584     1.8373E-09    18.400    49.121     5.000  -156.911
8.540
   SRCPARAM A0000585     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000586     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000587     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000589     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000590     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000591     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000592     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000594     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000599     1.8373E-09    18.400    49.121     5.000  -156.911
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   SRCPARAM A0000621     1.8373E-09    18.400    43.527     5.000  -154.716
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   SRCPARAM A0000628     1.8373E-09    18.400    48.446     5.000  -151.965
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   SRCPARAM A0000630     1.8373E-09    18.400    48.446     5.000  -151.965
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   SRCPARAM A0000634     1.8373E-09    18.400    49.243     5.000  -148.179
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   SRCPARAM A0000635     1.8373E-09    18.400    49.243     5.000  -148.179
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   SRCPARAM A0000637     1.8373E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000657     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000658     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000659     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000660     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000661     1.1331E-09    18.400    49.815     5.000  -156.915
8.540
   SRCPARAM A0000662     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000663     1.1331E-09    18.400    49.815     5.000  -156.915
8.540
   SRCPARAM A0000664     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000665     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000666     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000667     1.1331E-09    18.400    49.815     5.000  -156.915
8.540
   SRCPARAM A0000668     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000679     1.1331E-09    18.400    49.815     5.000  -156.915
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8.540
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8.540
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   SRCPARAM A0000685     1.1331E-09    18.400    49.815     5.000  -156.915
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8.540
   SRCPARAM A0000690     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000691     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000693     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000697     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000702     1.1331E-09    18.400    49.815     5.000  -156.915
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   SRCPARAM A0000703     1.1331E-09    18.400    49.815     5.000  -156.915
8.540
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8.540
   SRCPARAM A0000705     1.1331E-09    18.400    49.456     5.000  -153.436
8.540
   SRCPARAM A0000706     1.1331E-09    18.400    49.456     5.000  -153.436
8.540
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8.540
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8.540
   SRCPARAM A0000710     1.1331E-09    18.400    43.719     5.000  -151.660
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   SRCPARAM A0000712     1.1331E-09    18.400    43.719     5.000  -151.660
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8.540
   SRCPARAM A0000714     1.1331E-09    18.400    49.243     5.000  -148.179
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   SRCPARAM A0000715     1.1331E-09    18.400    49.243     5.000  -148.179
8.540
   SRCPARAM A0000716     1.1331E-09    18.400    49.243     5.000  -148.179
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   SRCPARAM A0000718     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000720     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000722     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000724     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000726     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000727     1.1331E-09    18.400    47.822     5.000  -143.668
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   SRCPARAM A0000728     1.1331E-09    18.400    47.822     5.000  -143.668
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8.540
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   SRCPARAM A0000344     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000345     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000346     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000347     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000348     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000349     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000350     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000351     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000352     3.9152E-14     3.400    67.055     7.000  -156.754
3.160
   SRCPARAM A0000353     3.9152E-14     3.400    63.285     7.000  -151.066
3.160
   SRCPARAM A0000354     3.9152E-14     3.400    63.285     7.000  -151.066
3.160
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   SRCPARAM A0000356     3.9152E-14     3.400    63.285     7.000  -151.066
3.160
   SRCPARAM A0000357     3.9152E-14     3.400    63.285     7.000  -151.066
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   SRCPARAM A0000358     3.9152E-14     3.400    56.159     7.000  -139.970
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   SRCPARAM A0000359     3.9152E-14     3.400    67.925     7.000  -159.546
3.160
   SRCPARAM A0000360     3.9152E-14     3.400    67.925     7.000  -159.546
3.160
   SRCPARAM A0000361     3.9152E-14     3.400    67.925     7.000  -159.546
3.160
   SRCPARAM A0000362     3.9152E-14     3.400    67.925     7.000  -159.546
3.160
   SRCPARAM A0000363     3.9152E-14     3.400    67.925     7.000  -159.546
3.160
   SRCPARAM A0000364     3.9152E-14     3.400    56.736     7.000  -165.964
3.160
   SRCPARAM A0000365     3.9152E-14     3.400    50.896     7.000  -157.479
3.160
   SRCPARAM A0000366     3.9152E-14     3.400    50.896     7.000  -157.479
3.160
   SRCPARAM A0000367     3.9152E-14     3.400    50.896     7.000  -157.479
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   SRCPARAM A0000369     3.9152E-14     3.400    61.478     7.000   -66.591
3.160
   SRCPARAM A0000370     3.9152E-14     3.400    61.478     7.000   -66.591
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   SRCPARAM A0000371     3.9152E-14     3.400    61.478     7.000   -66.591
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   SRCPARAM A0000373     3.9152E-14     3.400    67.392     7.000  -155.152
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   SRCPARAM A0000374     3.9152E-14     3.400    67.392     7.000  -155.152
3.160
   SRCPARAM A0000375     3.9152E-14     3.400    67.392     7.000  -155.152
3.160
   SRCPARAM A0000376     3.9152E-14     3.400    67.392     7.000  -155.152
3.160
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3.160
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3.160
   SRCPARAM A0000379     3.9152E-14     3.400    67.392     7.000  -155.152
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   SRCPARAM A0000383     3.9152E-14     3.400    62.752     7.000  -167.869
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   SRCPARAM A0000384     3.9152E-14     3.400    62.752     7.000  -167.869
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   SRCPARAM A0000385     3.9152E-14     3.400    57.180     7.000  -164.291
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   SRCPARAM A0000386     3.9152E-14     3.400    57.180     7.000  -164.291
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   SRCPARAM A0000387     3.9152E-14     3.400    57.180     7.000  -164.291
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   SRCPARAM A0000388     3.9152E-14     3.400    33.830     7.000   -78.464
3.160
   SRCPARAM A0000389     3.9152E-14     3.400    45.624     7.000  -159.677
3.160
   SRCPARAM A0000390     3.9152E-14     3.400    45.624     7.000  -159.677
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   SRCPARAM A0000392     3.9152E-14     3.400    51.357     7.000  -158.022
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   SRCPARAM A0000393     3.9152E-14     3.400    51.357     7.000  -158.022
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   SRCPARAM A0000394     3.9152E-14     3.400    64.241     7.000  -124.034
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   SRCPARAM A0000395     3.9152E-14     3.400    64.241     7.000  -124.034
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   SRCPARAM A0000396     3.9152E-14     3.400    64.241     7.000  -124.034
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   SRCPARAM A0000397     3.9152E-14     3.400    52.309     7.000  -143.261
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   SRCPARAM A0000398     3.9152E-14     3.400    31.812     7.000   -45.941
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   SRCPARAM A0000399     3.9152E-14     3.400    43.581     7.000   -92.513
3.160
   SRCPARAM A0000400     3.9152E-14     3.400    43.581     7.000   -92.513
3.160
   SRCPARAM A0000401     3.9152E-14     3.400    36.680     7.000    -0.291
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   SRCPARAM A0000402     3.9152E-14     3.400    36.680     7.000    -0.291
3.160
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   SRCPARAM A0000517     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000519     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000520     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000521     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000522     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000523     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000525     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000528     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000531     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000532     3.9152E-14     3.400    68.961     7.000  -156.922
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   SRCPARAM A0000541     3.9152E-14     3.400    68.961     7.000  -156.922
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3.160
   SRCPARAM A0000545     3.9152E-14     3.400    67.392     7.000  -155.152
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   SRCPARAM A0000546     3.9152E-14     3.400    67.392     7.000  -155.152
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3.160
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3.160
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3.160
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   SRCPARAM A0000558     3.9152E-14     3.400    57.180     7.000  -164.291
3.160
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3.160
   SRCPARAM A0000561     3.9152E-14     3.400    45.624     7.000  -159.677
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   SRCPARAM A0000568     3.9152E-14     3.400    52.309     7.000  -143.261
3.160
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3.160
   SRCPARAM A0000570     3.9152E-14     3.400    43.581     7.000   -92.513
3.160
   SRCPARAM A0000571     3.9152E-14     3.400    43.581     7.000   -92.513
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2.250
   SRCPARAM A0000436     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000437     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000438     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000439     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000440     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000441     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000442     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000443     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000444     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000445     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000446     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000447     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
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2.250
   SRCPARAM A0000451     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000452     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000453     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000454     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000455     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000456     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000457     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000458     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000459     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000460     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000461     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000462     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000463     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000464     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000465     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000466     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000467     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000468     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000469     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000470     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000471     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000472     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
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   SRCPARAM A0000473     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000474     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000475     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000476     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000477     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000478     2.6889E-11     4.800    26.336     5.000  -141.844
2.250
   SRCPARAM A0000479     2.6889E-11     4.800    26.336     5.000  -141.844
2.250
   SRCPARAM A0000480     2.6889E-11     4.800    26.329     5.000  -134.384
2.250
   SRCPARAM A0000481     2.6889E-11     4.800    26.329     5.000  -134.384
2.250
   SRCPARAM A0000482     2.6889E-11     4.800    33.533     5.000  -123.311
2.250
   SRCPARAM A0000483     2.6889E-11     4.800    33.533     5.000  -123.311
2.250
   SRCPARAM A0000484     2.6889E-11     4.800    28.110     5.000  -116.200
2.250
   SRCPARAM A0000485     2.6889E-11     4.800    28.110     5.000  -116.200
2.250
   SRCPARAM A0000486     2.6889E-11     4.800    39.551     5.000  -111.371
2.250
   SRCPARAM A0000487     2.6889E-11     4.800    46.333     5.000   -96.450
2.250
   SRCPARAM A0000488     2.6889E-11     4.800    46.333     5.000   -96.450
2.250
   SRCPARAM A0000489     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000490     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000491     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000492     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000493     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000494     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000495     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000496     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000497     2.6889E-11     4.800    31.050     5.000  -125.538
2.250
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   SRCPARAM A0000498     2.6889E-11     4.800    31.050     5.000  -125.538
2.250
   SRCPARAM A0000499     2.6889E-11     4.800    32.284     5.000  -153.435
2.250
   SRCPARAM A0000500     2.6889E-11     4.800    32.284     5.000  -153.435
2.250
   SRCPARAM A0000501     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000502     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000503     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000504     2.6889E-11     4.800    34.361     5.000   166.329
2.250
   SRCPARAM A0000505     2.6889E-11     4.800    34.361     5.000   166.329
2.250
   SRCPARAM A0000506     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000507     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000508     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000509     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000510     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000511     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000512     2.6889E-11     4.800    48.752     5.000   178.182
2.250
** ------------------------------------------------------------------
   SRCPARAM STCK4        0.0000398562     4.600   351.000      3.73     0.666

   SRCPARAM STCK5        0.0000249101     4.600   351.000      3.73     0.666

** LINE AREA Source ID = ARLN9
   SRCPARAM A0000738     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000739     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000740     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000741     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000742     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000743     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000744     8.4161E-10     3.400    67.264     7.000    23.178
3.160
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   SRCPARAM A0000745     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000746     8.4161E-10     3.400    67.264     7.000    23.178
3.160
   SRCPARAM A0000747     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000748     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000749     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000750     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000751     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000752     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000753     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000754     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000755     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000756     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000757     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000758     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000759     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000760     8.4161E-10     3.400    65.641     7.000   -66.521
3.160
   SRCPARAM A0000761     8.4161E-10     3.400    11.879     7.000  -146.944
3.160
   SRCPARAM A0000762     8.4161E-10     3.400    11.270     7.000   -67.751
3.160
   SRCPARAM A0000763     8.4161E-10     3.400     9.014     7.000   -87.990
3.160
   SRCPARAM A0000764     8.4161E-10     3.400    59.400     7.000  -157.802
3.160
   SRCPARAM A0000765     8.4161E-10     3.400    20.365     7.000   114.775
3.160
   SRCPARAM A0000766     8.4161E-10     3.400    35.383     7.000    25.249
3.160
   SRCPARAM A0000767     8.4161E-10     3.400    35.383     7.000    25.249
3.160
   SRCPARAM A0000768     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000769     8.4161E-10     3.400    69.991     7.000   113.339
3.160
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   SRCPARAM A0000770     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000771     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000772     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000773     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000774     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000775     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000776     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000777     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000778     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000779     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000780     8.4161E-10     3.400    69.991     7.000   113.339
3.160
   SRCPARAM A0000781     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000782     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000783     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000784     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000785     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000786     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000787     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000788     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
   SRCPARAM A0000789     8.4161E-10     3.400    67.000     7.000  -157.288
3.160
** ------------------------------------------------------------------------
   SRCPARAM AREA2        7.4301E-10     3.400    50.448     5.034    22.518
3.160
   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Daytime"
   EMISFACT A0000142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000142     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000142     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000142     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000143     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000143     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000143     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000144     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000144     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000144     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000145     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000145     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000145     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000146     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000146     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000146     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000147     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000147     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000147     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000148     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000148     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000149     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000159     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000161     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000166     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000167     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000167     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000168     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000169     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000171     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000262     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000262     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000262     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000262     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000263     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000263     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000263     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000264     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000264     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000264     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000265     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000265     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000265     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000266     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000266     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000266     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000267     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000267     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000267     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000268     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000268     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000268     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000269     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000269     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000269     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000270     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000270     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000270     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000271     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000271     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000271     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000272     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000272     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000272     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000273     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000273     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000273     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000274     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000274     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000274     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000275     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000276     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000277     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000278     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000278     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000278     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000279     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000279     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000279     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000280     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000280     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000281     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000282     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000282     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000283     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000284     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000284     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000286     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000287     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000287     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000288     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000288     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000289     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000289     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000291     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000292     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000292     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000292     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000293     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000293     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000293     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000294     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000294     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000294     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000295     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000295     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000295     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000296     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000297     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000297     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000297     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000298     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000299     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000299     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000299     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000300     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000301     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000301     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000301     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000302     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000302     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000302     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000303     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000303     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000303     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000304     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000304     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000304     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000305     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000305     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000305     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000306     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000306     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000306     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000307     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000307     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000307     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000308     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000308     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000308     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000309     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000309     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000309     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000310     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000310     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000310     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000311     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000311     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000311     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000312     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000312     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000312     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000313     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000313     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000313     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000314     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000314     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000314     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000315     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000315     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000315     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000316     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000316     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000316     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Nighttime"
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EMISFACT A0000574     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000574     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000576     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000576     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000577     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000580     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000582     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000582     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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SO FINISHED
**
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** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED "MITC Ops HRA No Project.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
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   PROFFILE Merced_18-22.PFL
   SURFDATA 23257 2018
   UAIRDATA 23230 2018 OAKLAND/WSO_AP
   PROFBASE 46.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
**************************************
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OU STARTING
** Auto-Generated Plotfiles
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   PLOTFILE ANNUAL H1varian "MITC OPS HRA NO PROJECT.AD\AN00G002.PLT" 32
   PLOTFILE ANNUAL H2varian "MITC OPS HRA NO PROJECT.AD\AN00G003.PLT" 33
   PLOTFILE ANNUAL H3varian "MITC OPS HRA NO PROJECT.AD\AN00G004.PLT" 34
   SUMMFILE "MITC Ops HRA No Project.sum"
OU FINISHED
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** Project Parameters
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
**
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Section 5.2 Project

For idling, we should use 5 minutes per state law. So it would be truck trips per year * 5 minutes per trip.

Connecting Transit PM10 Exhaust Running Emissions		
22.00781454	grams/year	downtown Merced bus service
6.9978E-07	**grams/second**	
2E-11	**grams/second/m^2**	

Mobile Conversions

12	months per year
52	weeks per year
7	days per week
24	hours per day
60	minutes per hour
60	seconds per minute
31449600	seconds per year
3.335956	miles per trip per day for Connecting Transit bus service in downtown Merced
5368.7	meters per trip per day for Connecting Transit bus service in downtown Merced
7	meters width for roads
5	meters width for train tracks
4.801708	miles per roundtrip per day for 8 train Project passenger rail service
7727.6	meters per roundtrip per day for 8 train Project passenger rail service
4.641705	miles per roundtrip for H2 delivery via truck for H2 Variant
7470.1	meters per roundtrip for H2 delivery via truck for H2 Variant
4.436217	miles per roundtrip for H2 delivery via rail for H3 Variant
7139.4	meters per roundtrip for H2 delivery via rail for H3 Variant
1609.344	meters per mile
5	minutes idling per trip

Generator Conversions

365	days per year
24	hours per day
60	minutes per hour
60	seconds per minute
907185	grams per ton

Generator PM10 Emissions (for the 769 horsepower generator at LMF)

4.54E-05 grams per second

Hydrogen delivery via rail PM10 Exhaust Running Emissions

30.19	grams/year
9.59839E-07	**grams/second**
2.68885E-11	**grams/second/m^2**

Hydrogen delivery via truck PM10 Exhaust Running Emissions

0.0643868	grams/year
2.0473E-09	**grams/second**
3.91523E-14	**grams/second/m^2**

Locomotive Movement PM10 Exhaust Running Emissions			
	1116.329591	grams/year	Future Project 8 trains
	3.54958E-05	**grams/second**	
	1.84E-09	**grams/second/m^2**	

Locomotive PM10 Exhaust Idling Emissions @ new Merced Station			
	835.6415221	grams/year	at new Merced HSR sta
	2.65708E-05	**grams/second**	

Locomotive PM10 Exhaust Idling Emissions @ future LMF			
	1253.462283	grams/year	at future LMF
	3.98562E-05	**grams/second**	

Locomotive Movement PM10 Exhaust Running Emissions			
	688.4448706	grams/year	Future Hydrogen Varia
	2.18904E-05	**grams/second**	
	1.13E-09	**grams/second/m^2**	

Locomotive PM10 Exhaust Idling Emissions @ new Merced Station			
	522.2759513	grams/year	at new Merced HSR sta
	1.66068E-05	**grams/second**	

Locomotive PM10 Exhaust Idling Emissions @ future LMF			
	783.413927	grams/year	at future LMF
	2.49101E-05	**grams/second**	

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 1/29/2024
** File: C:\Lakes\AERMOD View\MITC Ops HRA Project\MITC Ops HRA Project.ADI
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**
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** AERMOD Control Pathway
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**
**
CO STARTING
   TITLEONE MITC Project Operational HRA
   MODELOPT CONC FASTAREA
   AVERTIME ANNUAL
   URBANOPT 86333 MERCED_US_CENSUS_2020
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "MITC CONSTRUCT.ERR"
CO FINISHED
**
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** AERMOD Source Pathway
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**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION PAREA1       AREAPOLY   719851.101  4132574.523       48.690
** DESCRSRC LMF
   LOCATION AREA1        AREA       722155.113  4131370.737       51.620
** DESCRSRC HSR Platform
   LOCATION PAREA2       AREAPOLY   722427.265  4131309.632       51.080
** DESCRSRC HSR station Parking
   LOCATION STCK1        POINT      720967.623  4132413.928       49.420
** DESCRSRC LMF generator
** ----------------------------------------------------------------------
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN1
** DESCRSRC Connecting Transit bus route
** PREFIX
** Length of Side = 7.00
** Ratio = 10
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** Vertical Dimension = 3.16
** Emission Rate = 1.862E-11
** Nodes = 8
** 722717.152, 4131293.618, 51.20, 3.40
** 723271.101, 4131054.482, 52.37, 3.40
** 723639.730, 4131897.892, 52.43, 3.40
** 723502.960, 4131958.433, 52.25, 3.40
** 723331.642, 4131557.539, 52.04, 3.40
** 721846.528, 4132196.169, 51.14, 3.40
** 721655.174, 4131745.169, 51.04, 3.40
** 722716.898, 4131295.866, 51.20, 3.40
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   LOCATION A0000001     AREA     722715.765 4131290.405 51.20
   LOCATION A0000002     AREA     722777.315 4131263.834 51.20
   LOCATION A0000003     AREA     722838.865 4131237.263 51.21
   LOCATION A0000004     AREA     722900.414 4131210.693 51.20
   LOCATION A0000005     AREA     722961.964 4131184.122 51.20
   LOCATION A0000006     AREA     723023.514 4131157.551 51.22
   LOCATION A0000007     AREA     723085.064 4131130.981 51.28
   LOCATION A0000008     AREA     723146.614 4131104.410 51.49
   LOCATION A0000009     AREA     723208.164 4131077.839 51.91
   LOCATION A0000010     AREA     723274.308 4131053.080 52.38
   LOCATION A0000011     AREA     723300.638 4131113.324 52.29
   LOCATION A0000012     AREA     723326.969 4131173.567 52.24
   LOCATION A0000013     AREA     723353.300 4131233.811 52.21
   LOCATION A0000014     AREA     723379.630 4131294.054 52.19
   LOCATION A0000015     AREA     723405.961 4131354.298 52.20
   LOCATION A0000016     AREA     723432.292 4131414.542 52.21
   LOCATION A0000017     AREA     723458.623 4131474.785 52.23
   LOCATION A0000018     AREA     723484.953 4131535.029 52.24
   LOCATION A0000019     AREA     723511.284 4131595.272 52.25
   LOCATION A0000020     AREA     723537.615 4131655.516 52.25
   LOCATION A0000021     AREA     723563.945 4131715.759 52.24
   LOCATION A0000022     AREA     723590.276 4131776.003 52.26
   LOCATION A0000023     AREA     723616.607 4131836.247 52.25
   LOCATION A0000024     AREA     723641.147 4131901.092 52.56
   LOCATION A0000025     AREA     723595.557 4131921.273 52.53
   LOCATION A0000026     AREA     723549.967 4131941.453 52.30
   LOCATION A0000027     AREA     723499.742 4131959.808 52.31
   LOCATION A0000028     AREA     723475.268 4131902.538 52.10
   LOCATION A0000029     AREA     723450.794 4131845.267 52.09
   LOCATION A0000030     AREA     723426.320 4131787.997 52.07
   LOCATION A0000031     AREA     723401.845 4131730.726 52.07
   LOCATION A0000032     AREA     723377.371 4131673.456 52.10
   LOCATION A0000033     AREA     723352.897 4131616.185 52.10
   LOCATION A0000034     AREA     723333.024 4131560.755 52.07
   LOCATION A0000035     AREA     723271.144 4131587.364 51.97
   LOCATION A0000036     AREA     723209.265 4131613.974 51.79
   LOCATION A0000037     AREA     723147.385 4131640.583 51.84
   LOCATION A0000038     AREA     723085.505 4131667.193 51.81
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   LOCATION A0000041     AREA     722899.866 4131747.022 51.66
   LOCATION A0000042     AREA     722837.986 4131773.631 51.56
   LOCATION A0000043     AREA     722776.107 4131800.241 51.46
   LOCATION A0000044     AREA     722714.227 4131826.850 51.36
   LOCATION A0000045     AREA     722652.347 4131853.460 51.26
   LOCATION A0000046     AREA     722590.467 4131880.070 51.17
   LOCATION A0000047     AREA     722528.588 4131906.679 51.11
   LOCATION A0000048     AREA     722466.708 4131933.289 51.04
   LOCATION A0000049     AREA     722404.828 4131959.898 51.04
   LOCATION A0000050     AREA     722342.948 4131986.508 51.06
   LOCATION A0000051     AREA     722281.069 4132013.118 51.06
   LOCATION A0000052     AREA     722219.189 4132039.727 51.04
   LOCATION A0000053     AREA     722157.309 4132066.337 51.03
   LOCATION A0000054     AREA     722095.429 4132092.946 51.02
   LOCATION A0000055     AREA     722033.550 4132119.556 51.02
   LOCATION A0000056     AREA     721971.670 4132146.165 51.00
   LOCATION A0000057     AREA     721909.790 4132172.775 51.03
   LOCATION A0000058     AREA     721843.306 4132197.536 51.14
   LOCATION A0000059     AREA     721815.970 4132133.108 51.13
   LOCATION A0000060     AREA     721788.633 4132068.679 51.07
   LOCATION A0000061     AREA     721761.297 4132004.251 51.04
   LOCATION A0000062     AREA     721733.961 4131939.822 51.03
   LOCATION A0000063     AREA     721706.625 4131875.393 51.04
   LOCATION A0000064     AREA     721679.289 4131810.965 51.00
   LOCATION A0000065     AREA     721653.810 4131741.946 51.04
   LOCATION A0000066     AREA     721716.265 4131715.516 51.01
   LOCATION A0000067     AREA     721778.719 4131689.087 51.02
   LOCATION A0000068     AREA     721841.173 4131662.657 51.03
   LOCATION A0000069     AREA     721903.628 4131636.228 51.04
   LOCATION A0000070     AREA     721966.082 4131609.798 51.04
   LOCATION A0000071     AREA     722028.536 4131583.368 51.05
   LOCATION A0000072     AREA     722090.991 4131556.939 51.05
   LOCATION A0000073     AREA     722153.445 4131530.509 51.05
   LOCATION A0000074     AREA     722215.899 4131504.080 51.04
   LOCATION A0000075     AREA     722278.354 4131477.650 51.05
   LOCATION A0000076     AREA     722340.808 4131451.220 51.04
   LOCATION A0000077     AREA     722403.263 4131424.791 51.04
   LOCATION A0000078     AREA     722465.717 4131398.361 51.09
   LOCATION A0000079     AREA     722528.171 4131371.932 51.16
   LOCATION A0000080     AREA     722590.626 4131345.502 51.19
   LOCATION A0000081     AREA     722653.080 4131319.073 51.20
** End of LINE AREA Source ID = ARLN1
   LOCATION STCK2        POINT      722298.000  4131385.460       51.050
** DESCRSRC MITC Project locomotive idling at future HSR station
   LOCATION STCK3        POINT      722298.000  4131385.460       51.050
** DESCRSRC MITC Hydrogen Variants locomotive idling at future HSR station
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** Line Source Represented by Area Sources
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** LINE AREA Source ID = ARLN2
** DESCRSRC MITC Project locomotive movement emissions daytime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 1.8373E-09
** Nodes = 11
** 722839.552, 4131161.976, 51.09, 4.80
** 721311.247, 4131811.932, 51.09, 4.80
** 721250.108, 4131842.502, 51.13, 4.80
** 721199.602, 4131875.730, 51.01, 4.80
** 721151.755, 4131923.577, 51.22, 4.80
** 721110.552, 4131987.374, 51.55, 4.80
** 721079.983, 4132060.475, 50.46, 4.80
** 721069.350, 4132152.184, 50.25, 4.80
** 721065.033, 4133092.588, 50.24, 4.80
** 720897.666, 4133196.443, 50.39, 4.80
** 720396.841, 4133564.764, 49.65, 4.80
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   LOCATION A0000143     AREA     722795.580 4131183.393 51.10
   LOCATION A0000144     AREA     722750.630 4131202.509 51.10
   LOCATION A0000145     AREA     722705.680 4131221.625 51.09
   LOCATION A0000146     AREA     722660.729 4131240.742 51.10
   LOCATION A0000147     AREA     722615.779 4131259.858 51.10
   LOCATION A0000148     AREA     722570.829 4131278.975 51.09
   LOCATION A0000149     AREA     722525.879 4131298.091 51.10
   LOCATION A0000150     AREA     722480.929 4131317.207 51.09
   LOCATION A0000151     AREA     722435.979 4131336.324 51.08
   LOCATION A0000152     AREA     722391.029 4131355.440 51.06
   LOCATION A0000153     AREA     722346.079 4131374.556 51.04
   LOCATION A0000154     AREA     722301.128 4131393.673 51.04
   LOCATION A0000155     AREA     722256.178 4131412.789 51.04
   LOCATION A0000156     AREA     722211.228 4131431.906 51.04
   LOCATION A0000157     AREA     722166.278 4131451.022 51.04
   LOCATION A0000158     AREA     722121.328 4131470.138 51.04
   LOCATION A0000159     AREA     722076.378 4131489.255 51.04
   LOCATION A0000160     AREA     722031.428 4131508.371 51.04
   LOCATION A0000161     AREA     721986.478 4131527.487 51.03
   LOCATION A0000162     AREA     721941.527 4131546.604 51.03
   LOCATION A0000163     AREA     721896.577 4131565.720 51.03
   LOCATION A0000164     AREA     721851.627 4131584.837 51.02
   LOCATION A0000165     AREA     721806.677 4131603.953 51.02
   LOCATION A0000166     AREA     721761.727 4131623.069 51.02
   LOCATION A0000167     AREA     721716.777 4131642.186 51.01
   LOCATION A0000168     AREA     721671.827 4131661.302 51.00
   LOCATION A0000169     AREA     721626.877 4131680.418 51.02
   LOCATION A0000170     AREA     721581.926 4131699.535 50.99
   LOCATION A0000171     AREA     721536.976 4131718.651 50.96
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LOCATION A0000172 AREA 721492.026 4131737.768 51.10
LOCATION A0000173 AREA 721447.076 4131756.884 51.19
LOCATION A0000174 AREA 721402.126 4131776.000 51.08
LOCATION A0000175 AREA 721357.176 4131795.117 51.06
LOCATION A0000176 AREA 721312.365 4131814.169 51.10
LOCATION A0000177 AREA 721281.796 4131829.453 51.10
LOCATION A0000178 AREA 721251.482 4131844.590 51.14
LOCATION A0000179 AREA 721226.229 4131861.204 51.15
LOCATION A0000180 AREA 721201.370 4131877.497 50.97
LOCATION A0000181 AREA 721177.446 4131901.421 50.87
LOCATION A0000182 AREA 721153.855 4131924.934 51.26
LOCATION A0000183 AREA 721133.254 4131956.832 51.45
LOCATION A0000184 AREA 721112.859 4131988.339 51.52
LOCATION A0000185 AREA 721097.574 4132024.889 51.07
LOCATION A0000186 AREA 721082.466 4132060.763 50.46
LOCATION A0000187 AREA 721077.150 4132106.617 50.38
LOCATION A0000188 AREA 721071.850 4132152.195 50.20
LOCATION A0000189 AREA 721071.623 4132201.690 50.24
LOCATION A0000190 AREA 721071.396 4132251.185 49.91
LOCATION A0000191 AREA 721071.168 4132300.680 49.78
LOCATION A0000192 AREA 721070.941 4132350.175 49.77
LOCATION A0000193 AREA 721070.714 4132399.670 49.78
LOCATION A0000194 AREA 721070.487 4132449.165 49.81
LOCATION A0000195 AREA 721070.259 4132498.660 49.82
LOCATION A0000196 AREA 721070.032 4132548.155 49.81
LOCATION A0000197 AREA 721069.805 4132597.650 49.87
LOCATION A0000198 AREA 721069.578 4132647.145 49.84
LOCATION A0000199 AREA 721069.351 4132696.639 49.86
LOCATION A0000200 AREA 721069.123 4132746.134 49.83
LOCATION A0000201 AREA 721068.896 4132795.629 49.94
LOCATION A0000202 AREA 721068.669 4132845.124 49.98
LOCATION A0000203 AREA 721068.442 4132894.619 49.98
LOCATION A0000204 AREA 721068.215 4132944.114 49.98
LOCATION A0000205 AREA 721067.987 4132993.609 49.92
LOCATION A0000206 AREA 721067.760 4133043.104 50.24
LOCATION A0000207 AREA 721066.351 4133094.712 50.21
LOCATION A0000208 AREA 721024.509 4133120.676 49.94
LOCATION A0000209 AREA 720982.668 4133146.640 50.06
LOCATION A0000210 AREA 720940.826 4133172.604 50.29
LOCATION A0000211 AREA 720899.147 4133198.457 50.35
LOCATION A0000212 AREA 720860.622 4133226.790 50.32
LOCATION A0000213 AREA 720822.097 4133255.122 50.33
LOCATION A0000214 AREA 720783.572 4133283.454 50.34
LOCATION A0000215 AREA 720745.047 4133311.787 50.41
LOCATION A0000216 AREA 720706.522 4133340.119 50.35
LOCATION A0000217 AREA 720667.997 4133368.451 49.95
LOCATION A0000218 AREA 720629.472 4133396.784 50.16
LOCATION A0000219 AREA 720590.947 4133425.116 50.05
LOCATION A0000220 AREA 720552.422 4133453.448 49.94
LOCATION A0000221 AREA 720513.897 4133481.781 49.79

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   LOCATION A0000222     AREA     720475.372 4133510.113 49.85
   LOCATION A0000223     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN2
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN3
** DESCRSRC MITC Hydrogen Variants locomotive movement emissions daytime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 1.1331E-09
** Nodes = 11
** 722839.552, 4131161.976, 51.09, 4.80
** 721311.247, 4131811.932, 51.09, 4.80
** 721250.108, 4131842.502, 51.13, 4.80
** 721199.602, 4131875.730, 51.01, 4.80
** 721151.755, 4131923.577, 51.22, 4.80
** 721110.552, 4131987.374, 51.55, 4.80
** 721079.983, 4132060.475, 50.46, 4.80
** 721069.350, 4132152.184, 50.25, 4.80
** 721065.033, 4133092.588, 50.24, 4.80
** 720897.666, 4133196.443, 50.39, 4.80
** 720396.841, 4133564.764, 49.65, 4.80
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   LOCATION A0000243     AREA     722795.580 4131183.393 51.10
   LOCATION A0000244     AREA     722750.630 4131202.509 51.10
   LOCATION A0000245     AREA     722705.680 4131221.625 51.09
   LOCATION A0000246     AREA     722660.729 4131240.742 51.10
   LOCATION A0000247     AREA     722615.779 4131259.858 51.10
   LOCATION A0000248     AREA     722570.829 4131278.975 51.09
   LOCATION A0000249     AREA     722525.879 4131298.091 51.10
   LOCATION A0000250     AREA     722480.929 4131317.207 51.09
   LOCATION A0000251     AREA     722435.979 4131336.324 51.08
   LOCATION A0000252     AREA     722391.029 4131355.440 51.06
   LOCATION A0000253     AREA     722346.079 4131374.556 51.04
   LOCATION A0000254     AREA     722301.128 4131393.673 51.04
   LOCATION A0000255     AREA     722256.178 4131412.789 51.04
   LOCATION A0000256     AREA     722211.228 4131431.906 51.04
   LOCATION A0000257     AREA     722166.278 4131451.022 51.04
   LOCATION A0000258     AREA     722121.328 4131470.138 51.04
   LOCATION A0000259     AREA     722076.378 4131489.255 51.04
   LOCATION A0000260     AREA     722031.428 4131508.371 51.04
   LOCATION A0000261     AREA     721986.478 4131527.487 51.03
   LOCATION A0000262     AREA     721941.527 4131546.604 51.03
   LOCATION A0000263     AREA     721896.577 4131565.720 51.03
   LOCATION A0000264     AREA     721851.627 4131584.837 51.02
   LOCATION A0000265     AREA     721806.677 4131603.953 51.02
   LOCATION A0000266     AREA     721761.727 4131623.069 51.02
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LOCATION A0000267 AREA 721716.777 4131642.186 51.01
LOCATION A0000268 AREA 721671.827 4131661.302 51.00
LOCATION A0000269 AREA 721626.877 4131680.418 51.02
LOCATION A0000270 AREA 721581.926 4131699.535 50.99
LOCATION A0000271 AREA 721536.976 4131718.651 50.96
LOCATION A0000272 AREA 721492.026 4131737.768 51.10
LOCATION A0000273 AREA 721447.076 4131756.884 51.19
LOCATION A0000274 AREA 721402.126 4131776.000 51.08
LOCATION A0000275 AREA 721357.176 4131795.117 51.06
LOCATION A0000276 AREA 721312.365 4131814.169 51.10
LOCATION A0000277 AREA 721281.796 4131829.453 51.10
LOCATION A0000278 AREA 721251.482 4131844.590 51.14
LOCATION A0000279 AREA 721226.229 4131861.204 51.15
LOCATION A0000280 AREA 721201.370 4131877.497 50.97
LOCATION A0000281 AREA 721177.446 4131901.421 50.87
LOCATION A0000282 AREA 721153.855 4131924.934 51.26
LOCATION A0000283 AREA 721133.254 4131956.832 51.45
LOCATION A0000284 AREA 721112.859 4131988.339 51.52
LOCATION A0000285 AREA 721097.574 4132024.889 51.07
LOCATION A0000286 AREA 721082.466 4132060.763 50.46
LOCATION A0000287 AREA 721077.150 4132106.617 50.38
LOCATION A0000288 AREA 721071.850 4132152.195 50.20
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LOCATION A0000290 AREA 721071.396 4132251.185 49.91
LOCATION A0000291 AREA 721071.168 4132300.680 49.78
LOCATION A0000292 AREA 721070.941 4132350.175 49.77
LOCATION A0000293 AREA 721070.714 4132399.670 49.78
LOCATION A0000294 AREA 721070.487 4132449.165 49.81
LOCATION A0000295 AREA 721070.259 4132498.660 49.82
LOCATION A0000296 AREA 721070.032 4132548.155 49.81
LOCATION A0000297 AREA 721069.805 4132597.650 49.87
LOCATION A0000298 AREA 721069.578 4132647.145 49.84
LOCATION A0000299 AREA 721069.351 4132696.639 49.86
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LOCATION A0000301 AREA 721068.896 4132795.629 49.94
LOCATION A0000302 AREA 721068.669 4132845.124 49.98
LOCATION A0000303 AREA 721068.442 4132894.619 49.98
LOCATION A0000304 AREA 721068.215 4132944.114 49.98
LOCATION A0000305 AREA 721067.987 4132993.609 49.92
LOCATION A0000306 AREA 721067.760 4133043.104 50.24
LOCATION A0000307 AREA 721066.351 4133094.712 50.21
LOCATION A0000308 AREA 721024.509 4133120.676 49.94
LOCATION A0000309 AREA 720982.668 4133146.640 50.06
LOCATION A0000310 AREA 720940.826 4133172.604 50.29
LOCATION A0000311 AREA 720899.147 4133198.457 50.35
LOCATION A0000312 AREA 720860.622 4133226.790 50.32
LOCATION A0000313 AREA 720822.097 4133255.122 50.33
LOCATION A0000314 AREA 720783.572 4133283.454 50.34
LOCATION A0000315 AREA 720745.047 4133311.787 50.41
LOCATION A0000316 AREA 720706.522 4133340.119 50.35

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   LOCATION A0000317     AREA     720667.997 4133368.451 49.95
   LOCATION A0000318     AREA     720629.472 4133396.784 50.16
   LOCATION A0000319     AREA     720590.947 4133425.116 50.05
   LOCATION A0000320     AREA     720552.422 4133453.448 49.94
   LOCATION A0000321     AREA     720513.897 4133481.781 49.79
   LOCATION A0000322     AREA     720475.372 4133510.113 49.85
   LOCATION A0000323     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN3
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN7
** DESCRSRC MITC Project locomotive movement emissions nighttime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 8.54
** Emission Rate = 1.8373E-09
** Nodes = 11
** 722839.552, 4131161.976, 51.09, 18.40
** 721311.247, 4131811.932, 51.09, 18.40
** 721250.108, 4131842.502, 51.13, 18.40
** 721199.602, 4131875.730, 51.01, 18.40
** 721151.755, 4131923.577, 51.22, 18.40
** 721110.552, 4131987.374, 51.55, 18.40
** 721079.983, 4132060.475, 50.46, 18.40
** 721069.350, 4132152.184, 50.25, 18.40
** 721065.033, 4133092.588, 50.24, 18.40
** 720897.666, 4133196.443, 50.39, 18.40
** 720396.841, 4133564.764, 49.65, 18.40
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   LOCATION A0000575     AREA     722795.580 4131183.393 51.10
   LOCATION A0000576     AREA     722750.630 4131202.509 51.10
   LOCATION A0000577     AREA     722705.680 4131221.625 51.09
   LOCATION A0000578     AREA     722660.729 4131240.742 51.10
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   LOCATION A0000580     AREA     722570.829 4131278.975 51.09
   LOCATION A0000581     AREA     722525.879 4131298.091 51.10
   LOCATION A0000582     AREA     722480.929 4131317.207 51.09
   LOCATION A0000583     AREA     722435.979 4131336.324 51.08
   LOCATION A0000584     AREA     722391.029 4131355.440 51.06
   LOCATION A0000585     AREA     722346.079 4131374.556 51.04
   LOCATION A0000586     AREA     722301.128 4131393.673 51.04
   LOCATION A0000587     AREA     722256.178 4131412.789 51.04
   LOCATION A0000588     AREA     722211.228 4131431.906 51.04
   LOCATION A0000589     AREA     722166.278 4131451.022 51.04
   LOCATION A0000590     AREA     722121.328 4131470.138 51.04
   LOCATION A0000591     AREA     722076.378 4131489.255 51.04
   LOCATION A0000592     AREA     722031.428 4131508.371 51.04
   LOCATION A0000593     AREA     721986.478 4131527.487 51.03
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LOCATION A0000596     AREA     721851.627 4131584.837 51.02
LOCATION A0000597     AREA     721806.677 4131603.953 51.02
LOCATION A0000598     AREA     721761.727 4131623.069 51.02
LOCATION A0000599     AREA     721716.777 4131642.186 51.01
LOCATION A0000600     AREA     721671.827 4131661.302 51.00
LOCATION A0000601     AREA     721626.877 4131680.418 51.02
LOCATION A0000602     AREA     721581.926 4131699.535 50.99
LOCATION A0000603     AREA     721536.976 4131718.651 50.96
LOCATION A0000604     AREA     721492.026 4131737.768 51.10
LOCATION A0000605     AREA     721447.076 4131756.884 51.19
LOCATION A0000606     AREA     721402.126 4131776.000 51.08
LOCATION A0000607     AREA     721357.176 4131795.117 51.06
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LOCATION A0000609     AREA     721281.796 4131829.453 51.10
LOCATION A0000610     AREA     721251.482 4131844.590 51.14
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LOCATION A0000613     AREA     721177.446 4131901.421 50.87
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LOCATION A0000615     AREA     721133.254 4131956.832 51.45
LOCATION A0000616     AREA     721112.859 4131988.339 51.52
LOCATION A0000617     AREA     721097.574 4132024.889 51.07
LOCATION A0000618     AREA     721082.466 4132060.763 50.46
LOCATION A0000619     AREA     721077.150 4132106.617 50.38
LOCATION A0000620     AREA     721071.850 4132152.195 50.20
LOCATION A0000621     AREA     721071.623 4132201.690 50.24
LOCATION A0000622     AREA     721071.396 4132251.185 49.91
LOCATION A0000623     AREA     721071.168 4132300.680 49.78
LOCATION A0000624     AREA     721070.941 4132350.175 49.77
LOCATION A0000625     AREA     721070.714 4132399.670 49.78
LOCATION A0000626     AREA     721070.487 4132449.165 49.81
LOCATION A0000627     AREA     721070.259 4132498.660 49.82
LOCATION A0000628     AREA     721070.032 4132548.155 49.81
LOCATION A0000629     AREA     721069.805 4132597.650 49.87
LOCATION A0000630     AREA     721069.578 4132647.145 49.84
LOCATION A0000631     AREA     721069.351 4132696.639 49.86
LOCATION A0000632     AREA     721069.123 4132746.134 49.83
LOCATION A0000633     AREA     721068.896 4132795.629 49.94
LOCATION A0000634     AREA     721068.669 4132845.124 49.98
LOCATION A0000635     AREA     721068.442 4132894.619 49.98
LOCATION A0000636     AREA     721068.215 4132944.114 49.98
LOCATION A0000637     AREA     721067.987 4132993.609 49.92
LOCATION A0000638     AREA     721067.760 4133043.104 50.24
LOCATION A0000639     AREA     721066.351 4133094.712 50.21
LOCATION A0000640     AREA     721024.509 4133120.676 49.94
LOCATION A0000641     AREA     720982.668 4133146.640 50.06
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LOCATION A0000643     AREA     720899.147 4133198.457 50.35
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   LOCATION A0000647     AREA     720745.047 4133311.787 50.41
   LOCATION A0000648     AREA     720706.522 4133340.119 50.35
   LOCATION A0000649     AREA     720667.997 4133368.451 49.95
   LOCATION A0000650     AREA     720629.472 4133396.784 50.16
   LOCATION A0000651     AREA     720590.947 4133425.116 50.05
   LOCATION A0000652     AREA     720552.422 4133453.448 49.94
   LOCATION A0000653     AREA     720513.897 4133481.781 49.79
   LOCATION A0000654     AREA     720475.372 4133510.113 49.85
   LOCATION A0000655     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN7
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN8
** DESCRSRC MITC Hydrogen Variants locomotive movement emissions nighttime
** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 8.54
** Emission Rate = 1.1331E-09
** Nodes = 11
** 722839.552, 4131161.976, 51.09, 18.40
** 721311.247, 4131811.932, 51.09, 18.40
** 721250.108, 4131842.502, 51.13, 18.40
** 721199.602, 4131875.730, 51.01, 18.40
** 721151.755, 4131923.577, 51.22, 18.40
** 721110.552, 4131987.374, 51.55, 18.40
** 721079.983, 4132060.475, 50.46, 18.40
** 721069.350, 4132152.184, 50.25, 18.40
** 721065.033, 4133092.588, 50.24, 18.40
** 720897.666, 4133196.443, 50.39, 18.40
** 720396.841, 4133564.764, 49.65, 18.40
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   LOCATION A0000656     AREA     722840.530 4131164.276 51.09
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   LOCATION A0000658     AREA     722750.630 4131202.509 51.10
   LOCATION A0000659     AREA     722705.680 4131221.625 51.09
   LOCATION A0000660     AREA     722660.729 4131240.742 51.10
   LOCATION A0000661     AREA     722615.779 4131259.858 51.10
   LOCATION A0000662     AREA     722570.829 4131278.975 51.09
   LOCATION A0000663     AREA     722525.879 4131298.091 51.10
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   LOCATION A0000665     AREA     722435.979 4131336.324 51.08
   LOCATION A0000666     AREA     722391.029 4131355.440 51.06
   LOCATION A0000667     AREA     722346.079 4131374.556 51.04
   LOCATION A0000668     AREA     722301.128 4131393.673 51.04
   LOCATION A0000669     AREA     722256.178 4131412.789 51.04
   LOCATION A0000670     AREA     722211.228 4131431.906 51.04
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LOCATION A0000671 AREA 722166.278 4131451.022 51.04
LOCATION A0000672 AREA 722121.328 4131470.138 51.04
LOCATION A0000673 AREA 722076.378 4131489.255 51.04
LOCATION A0000674 AREA 722031.428 4131508.371 51.04
LOCATION A0000675 AREA 721986.478 4131527.487 51.03
LOCATION A0000676 AREA 721941.527 4131546.604 51.03
LOCATION A0000677 AREA 721896.577 4131565.720 51.03
LOCATION A0000678 AREA 721851.627 4131584.837 51.02
LOCATION A0000679 AREA 721806.677 4131603.953 51.02
LOCATION A0000680 AREA 721761.727 4131623.069 51.02
LOCATION A0000681 AREA 721716.777 4131642.186 51.01
LOCATION A0000682 AREA 721671.827 4131661.302 51.00
LOCATION A0000683 AREA 721626.877 4131680.418 51.02
LOCATION A0000684 AREA 721581.926 4131699.535 50.99
LOCATION A0000685 AREA 721536.976 4131718.651 50.96
LOCATION A0000686 AREA 721492.026 4131737.768 51.10
LOCATION A0000687 AREA 721447.076 4131756.884 51.19
LOCATION A0000688 AREA 721402.126 4131776.000 51.08
LOCATION A0000689 AREA 721357.176 4131795.117 51.06
LOCATION A0000690 AREA 721312.365 4131814.169 51.10
LOCATION A0000691 AREA 721281.796 4131829.453 51.10
LOCATION A0000692 AREA 721251.482 4131844.590 51.14
LOCATION A0000693 AREA 721226.229 4131861.204 51.15
LOCATION A0000694 AREA 721201.370 4131877.497 50.97
LOCATION A0000695 AREA 721177.446 4131901.421 50.87
LOCATION A0000696 AREA 721153.855 4131924.934 51.26
LOCATION A0000697 AREA 721133.254 4131956.832 51.45
LOCATION A0000698 AREA 721112.859 4131988.339 51.52
LOCATION A0000699 AREA 721097.574 4132024.889 51.07
LOCATION A0000700 AREA 721082.466 4132060.763 50.46
LOCATION A0000701 AREA 721077.150 4132106.617 50.38
LOCATION A0000702 AREA 721071.850 4132152.195 50.20
LOCATION A0000703 AREA 721071.623 4132201.690 50.24
LOCATION A0000704 AREA 721071.396 4132251.185 49.91
LOCATION A0000705 AREA 721071.168 4132300.680 49.78
LOCATION A0000706 AREA 721070.941 4132350.175 49.77
LOCATION A0000707 AREA 721070.714 4132399.670 49.78
LOCATION A0000708 AREA 721070.487 4132449.165 49.81
LOCATION A0000709 AREA 721070.259 4132498.660 49.82
LOCATION A0000710 AREA 721070.032 4132548.155 49.81
LOCATION A0000711 AREA 721069.805 4132597.650 49.87
LOCATION A0000712 AREA 721069.578 4132647.145 49.84
LOCATION A0000713 AREA 721069.351 4132696.639 49.86
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LOCATION A0000715 AREA 721068.896 4132795.629 49.94
LOCATION A0000716 AREA 721068.669 4132845.124 49.98
LOCATION A0000717 AREA 721068.442 4132894.619 49.98
LOCATION A0000718 AREA 721068.215 4132944.114 49.98
LOCATION A0000719 AREA 721067.987 4132993.609 49.92
LOCATION A0000720 AREA 721067.760 4133043.104 50.24

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   LOCATION A0000721     AREA     721066.351 4133094.712 50.21
   LOCATION A0000722     AREA     721024.509 4133120.676 49.94
   LOCATION A0000723     AREA     720982.668 4133146.640 50.06
   LOCATION A0000724     AREA     720940.826 4133172.604 50.29
   LOCATION A0000725     AREA     720899.147 4133198.457 50.35
   LOCATION A0000726     AREA     720860.622 4133226.790 50.32
   LOCATION A0000727     AREA     720822.097 4133255.122 50.33
   LOCATION A0000728     AREA     720783.572 4133283.454 50.34
   LOCATION A0000729     AREA     720745.047 4133311.787 50.41
   LOCATION A0000730     AREA     720706.522 4133340.119 50.35
   LOCATION A0000731     AREA     720667.997 4133368.451 49.95
   LOCATION A0000732     AREA     720629.472 4133396.784 50.16
   LOCATION A0000733     AREA     720590.947 4133425.116 50.05
   LOCATION A0000734     AREA     720552.422 4133453.448 49.94
   LOCATION A0000735     AREA     720513.897 4133481.781 49.79
   LOCATION A0000736     AREA     720475.372 4133510.113 49.85
   LOCATION A0000737     AREA     720436.847 4133538.445 49.86
** End of LINE AREA Source ID = ARLN8
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN4
** DESCRSRC Variant H2 offsite hydrogen delivery via truck inbound
** PREFIX
** Length of Side = 7.00
** Ratio = 10
** Vertical Dimension = 3.16
** Emission Rate = 3.9152E-14
** Nodes = 19
** 723046.113, 4130794.654, 53.98, 3.40
** 722368.388, 4131085.773, 54.29, 3.40
** 722091.458, 4131238.858, 53.51, 3.40
** 722048.456, 4131274.979, 53.47, 3.40
** 721730.245, 4131393.664, 53.99, 3.40
** 721675.203, 4131407.424, 54.01, 3.40
** 721534.158, 4131465.906, 53.43, 3.40
** 721656.282, 4131747.996, 51.04, 3.40
** 721105.900, 4132002.864, 51.30, 3.40
** 720921.847, 4132042.427, 50.37, 3.40
** 720756.715, 4132088.870, 49.93, 3.40
** 720763.481, 4132122.016, 49.73, 3.40
** 720677.914, 4132153.707, 49.43, 3.40
** 720535.040, 4132211.369, 49.61, 3.40
** 720427.176, 4132371.078, 49.18, 3.40
** 720385.257, 4132402.367, 49.89, 3.40
** 720407.379, 4132425.228, 49.05, 3.40
** 720403.558, 4132512.307, 49.19, 3.40
** 720476.917, 4132512.680, 49.05, 3.40
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   LOCATION A0000343     AREA     722985.883 4130824.336 54.16
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LOCATION A0000345 AREA 722862.660 4130877.266 54.06
LOCATION A0000346 AREA 722801.049 4130903.732 54.24
LOCATION A0000347 AREA 722739.437 4130930.197 54.08
LOCATION A0000348 AREA 722677.826 4130956.662 54.25
LOCATION A0000349 AREA 722616.215 4130983.127 54.26
LOCATION A0000350 AREA 722554.603 4131009.593 54.26
LOCATION A0000351 AREA 722492.992 4131036.058 54.14
LOCATION A0000352 AREA 722431.381 4131062.523 54.27
LOCATION A0000353 AREA 722370.081 4131088.836 54.29
LOCATION A0000354 AREA 722314.695 4131119.453 54.26
LOCATION A0000355 AREA 722259.309 4131150.070 54.19
LOCATION A0000356 AREA 722203.923 4131180.687 54.08
LOCATION A0000357 AREA 722148.537 4131211.304 53.78
LOCATION A0000358 AREA 722093.709 4131241.538 53.63
LOCATION A0000359 AREA 722049.680 4131278.259 53.40
LOCATION A0000360 AREA 721986.037 4131301.996 53.65
LOCATION A0000361 AREA 721922.395 4131325.732 53.76
LOCATION A0000362 AREA 721858.753 4131349.469 53.80
LOCATION A0000363 AREA 721795.110 4131373.206 53.85
LOCATION A0000364 AREA 721731.094 4131397.059 53.90
LOCATION A0000365 AREA 721676.544 4131410.657 54.00
LOCATION A0000366 AREA 721629.529 4131430.151 53.70
LOCATION A0000367 AREA 721582.514 4131449.645 53.58
LOCATION A0000368 AREA 721537.370 4131464.516 53.45
LOCATION A0000369 AREA 721561.795 4131520.934 52.63
LOCATION A0000370 AREA 721586.220 4131577.352 51.86
LOCATION A0000371 AREA 721610.645 4131633.770 51.24
LOCATION A0000372 AREA 721635.070 4131690.188 51.02
LOCATION A0000373 AREA 721657.753 4131751.172 51.03
LOCATION A0000374 AREA 721596.600 4131779.491 51.03
LOCATION A0000375 AREA 721535.446 4131807.810 50.99
LOCATION A0000376 AREA 721474.292 4131836.128 51.18
LOCATION A0000377 AREA 721413.139 4131864.447 51.41
LOCATION A0000378 AREA 721351.985 4131892.765 51.31
LOCATION A0000379 AREA 721290.832 4131921.084 50.81
LOCATION A0000380 AREA 721229.678 4131949.403 51.26
LOCATION A0000381 AREA 721168.524 4131977.721 51.48
LOCATION A0000382 AREA 721106.636 4132006.286 51.35
LOCATION A0000383 AREA 721045.284 4132019.473 50.74
LOCATION A0000384 AREA 720983.933 4132032.661 50.49
LOCATION A0000385 AREA 720922.794 4132045.796 50.30
LOCATION A0000386 AREA 720867.751 4132061.277 50.16
LOCATION A0000387 AREA 720812.707 4132076.758 50.00
LOCATION A0000388 AREA 720760.144 4132088.170 49.99
LOCATION A0000389 AREA 720764.696 4132125.298 49.73
LOCATION A0000390 AREA 720721.913 4132141.144 49.55
LOCATION A0000391 AREA 720679.224 4132156.953 49.43
LOCATION A0000392 AREA 720631.599 4132176.174 49.42
LOCATION A0000393 AREA 720583.975 4132195.394 49.40

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   LOCATION A0000394     AREA     720537.941 4132213.328 49.50
   LOCATION A0000395     AREA     720501.986 4132266.564 49.45
   LOCATION A0000396     AREA     720466.031 4132319.801 49.42
   LOCATION A0000397     AREA     720429.270 4132373.883 49.10
   LOCATION A0000398     AREA     720387.772 4132399.933 49.71
   LOCATION A0000399     AREA     720410.876 4132425.382 49.06
   LOCATION A0000400     AREA     720408.965 4132468.921 49.13
   LOCATION A0000401     AREA     720403.575 4132508.807 49.18
   LOCATION A0000402     AREA     720440.255 4132508.993 49.19
** End of LINE AREA Source ID = ARLN4
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN6
** DESCRSRC Variant H2 offsite hydrogen delivery via truck outbound
** PREFIX
** Length of Side = 7.00
** Ratio = 10
** Vertical Dimension = 3.16
** Emission Rate = 3.9152E-14
** Nodes = 13
** 723622.989, 4130910.030, 52.58, 3.40
** 721656.282, 4131747.996, 51.04, 3.40
** 721105.900, 4132002.864, 51.30, 3.40
** 720921.847, 4132042.427, 50.37, 3.40
** 720756.715, 4132088.870, 49.93, 3.40
** 720763.481, 4132122.016, 49.73, 3.40
** 720677.914, 4132153.707, 49.43, 3.40
** 720535.040, 4132211.369, 49.61, 3.40
** 720427.176, 4132371.078, 49.18, 3.40
** 720385.257, 4132402.367, 49.89, 3.40
** 720407.379, 4132425.228, 49.05, 3.40
** 720403.558, 4132512.307, 49.19, 3.40
** 720476.917, 4132512.680, 49.05, 3.40
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   LOCATION A0000514     AREA     723560.919 4130940.281 52.59
   LOCATION A0000515     AREA     723497.477 4130967.312 52.74
   LOCATION A0000516     AREA     723434.035 4130994.343 52.86
   LOCATION A0000517     AREA     723370.593 4131021.374 52.81
   LOCATION A0000518     AREA     723307.151 4131048.406 52.54
   LOCATION A0000519     AREA     723243.708 4131075.437 52.14
   LOCATION A0000520     AREA     723180.266 4131102.468 51.70
   LOCATION A0000521     AREA     723116.824 4131129.499 51.37
   LOCATION A0000522     AREA     723053.382 4131156.530 51.26
   LOCATION A0000523     AREA     722989.940 4131183.562 51.24
   LOCATION A0000524     AREA     722926.498 4131210.593 51.22
   LOCATION A0000525     AREA     722863.055 4131237.624 51.22
   LOCATION A0000526     AREA     722799.613 4131264.655 51.22
   LOCATION A0000527     AREA     722736.171 4131291.686 51.21
   LOCATION A0000528     AREA     722672.729 4131318.717 51.21
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   LOCATION A0000529     AREA     722609.287 4131345.749 51.21
   LOCATION A0000530     AREA     722545.845 4131372.780 51.18
   LOCATION A0000531     AREA     722482.402 4131399.811 51.12
   LOCATION A0000532     AREA     722418.960 4131426.842 51.05
   LOCATION A0000533     AREA     722355.518 4131453.873 51.05
   LOCATION A0000534     AREA     722292.076 4131480.904 51.05
   LOCATION A0000535     AREA     722228.634 4131507.936 51.05
   LOCATION A0000536     AREA     722165.192 4131534.967 51.05
   LOCATION A0000537     AREA     722101.750 4131561.998 51.05
   LOCATION A0000538     AREA     722038.307 4131589.029 51.05
   LOCATION A0000539     AREA     721974.865 4131616.060 51.05
   LOCATION A0000540     AREA     721911.423 4131643.092 51.04
   LOCATION A0000541     AREA     721847.981 4131670.123 51.03
   LOCATION A0000542     AREA     721784.539 4131697.154 51.02
   LOCATION A0000543     AREA     721721.097 4131724.185 51.01
   LOCATION A0000544     AREA     721657.753 4131751.172 51.03
   LOCATION A0000545     AREA     721596.600 4131779.491 51.03
   LOCATION A0000546     AREA     721535.446 4131807.810 50.99
   LOCATION A0000547     AREA     721474.292 4131836.128 51.18
   LOCATION A0000548     AREA     721413.139 4131864.447 51.41
   LOCATION A0000549     AREA     721351.985 4131892.765 51.31
   LOCATION A0000550     AREA     721290.832 4131921.084 50.81
   LOCATION A0000551     AREA     721229.678 4131949.403 51.26
   LOCATION A0000552     AREA     721168.524 4131977.721 51.48
   LOCATION A0000553     AREA     721106.636 4132006.286 51.35
   LOCATION A0000554     AREA     721045.284 4132019.473 50.74
   LOCATION A0000555     AREA     720983.933 4132032.661 50.49
   LOCATION A0000556     AREA     720922.794 4132045.796 50.30
   LOCATION A0000557     AREA     720867.751 4132061.277 50.16
   LOCATION A0000558     AREA     720812.707 4132076.758 50.00
   LOCATION A0000559     AREA     720760.144 4132088.170 49.99
   LOCATION A0000560     AREA     720764.696 4132125.298 49.73
   LOCATION A0000561     AREA     720721.913 4132141.144 49.55
   LOCATION A0000562     AREA     720679.224 4132156.953 49.43
   LOCATION A0000563     AREA     720631.599 4132176.174 49.42
   LOCATION A0000564     AREA     720583.975 4132195.394 49.40
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   LOCATION A0000567     AREA     720466.031 4132319.801 49.42
   LOCATION A0000568     AREA     720429.270 4132373.883 49.10
   LOCATION A0000569     AREA     720387.772 4132399.933 49.71
   LOCATION A0000570     AREA     720410.876 4132425.382 49.06
   LOCATION A0000571     AREA     720408.965 4132468.921 49.13
   LOCATION A0000572     AREA     720403.575 4132508.807 49.18
   LOCATION A0000573     AREA     720440.255 4132508.993 49.19
** End of LINE AREA Source ID = ARLN6
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** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN5
** DESCRSRC Variant H3 offsite hydrogen delivery via rail
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** PREFIX
** Length of Side = 5.00
** Ratio = 10
** Vertical Dimension = 2.25
** Emission Rate = 2.6889E-11
** Nodes = 14
** 723246.426, 4130987.536, 52.58, 4.80
** 721233.332, 4131849.709, 51.13, 4.80
** 721191.915, 4131882.250, 50.85, 4.80
** 721155.083, 4131919.883, 51.22, 4.80
** 721118.251, 4131975.931, 51.56, 4.80
** 721093.430, 4132026.374, 50.62, 4.80
** 721079.018, 4132063.206, 50.44, 4.80
** 721068.609, 4132155.285, 50.24, 4.80
** 721065.689, 4132512.870, 49.79, 4.80
** 721029.594, 4132563.403, 49.71, 4.80
** 720971.843, 4132592.278, 49.78, 4.80
** 720847.316, 4132586.864, 49.58, 4.80
** 720780.541, 4132570.622, 49.15, 4.80
** 720439.445, 4132559.793, 49.03, 4.80
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   LOCATION A0000434     AREA     723247.411 4130989.834 52.57
   LOCATION A0000435     AREA     723201.658 4131009.429 52.14
   LOCATION A0000436     AREA     723155.906 4131029.024 51.62
   LOCATION A0000437     AREA     723110.154 4131048.618 51.23
   LOCATION A0000438     AREA     723064.402 4131068.213 51.11
   LOCATION A0000439     AREA     723018.650 4131087.808 51.10
   LOCATION A0000440     AREA     722972.898 4131107.403 51.09
   LOCATION A0000441     AREA     722927.146 4131126.998 51.09
   LOCATION A0000442     AREA     722881.394 4131146.593 51.10
   LOCATION A0000443     AREA     722835.641 4131166.188 51.09
   LOCATION A0000444     AREA     722789.889 4131185.782 51.09
   LOCATION A0000445     AREA     722744.137 4131205.377 51.10
   LOCATION A0000446     AREA     722698.385 4131224.972 51.09
   LOCATION A0000447     AREA     722652.633 4131244.567 51.10
   LOCATION A0000448     AREA     722606.881 4131264.162 51.10
   LOCATION A0000449     AREA     722561.129 4131283.757 51.09
   LOCATION A0000450     AREA     722515.376 4131303.352 51.09
   LOCATION A0000451     AREA     722469.624 4131322.946 51.09
   LOCATION A0000452     AREA     722423.872 4131342.541 51.07
   LOCATION A0000453     AREA     722378.120 4131362.136 51.06
   LOCATION A0000454     AREA     722332.368 4131381.731 51.04
   LOCATION A0000455     AREA     722286.616 4131401.326 51.04
   LOCATION A0000456     AREA     722240.864 4131420.921 51.04
   LOCATION A0000457     AREA     722195.111 4131440.516 51.04
   LOCATION A0000458     AREA     722149.359 4131460.110 51.04
   LOCATION A0000459     AREA     722103.607 4131479.705 51.04
   LOCATION A0000460     AREA     722057.855 4131499.300 51.04
   LOCATION A0000461     AREA     722012.103 4131518.895 51.04
   LOCATION A0000462     AREA     721966.351 4131538.490 51.03
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LOCATION A0000463 AREA 721920.599 4131558.085 51.03
LOCATION A0000464 AREA 721874.846 4131577.680 51.02
LOCATION A0000465 AREA 721829.094 4131597.274 51.02
LOCATION A0000466 AREA 721783.342 4131616.869 51.02
LOCATION A0000467 AREA 721737.590 4131636.464 51.02
LOCATION A0000468 AREA 721691.838 4131656.059 51.00
LOCATION A0000469 AREA 721646.086 4131675.654 51.01
LOCATION A0000470 AREA 721600.334 4131695.249 51.01
LOCATION A0000471 AREA 721554.581 4131714.844 50.97
LOCATION A0000472 AREA 721508.829 4131734.438 51.01
LOCATION A0000473 AREA 721463.077 4131754.033 51.21
LOCATION A0000474 AREA 721417.325 4131773.628 51.09
LOCATION A0000475 AREA 721371.573 4131793.223 51.06
LOCATION A0000476 AREA 721325.821 4131812.818 51.12
LOCATION A0000477 AREA 721280.069 4131832.413 51.10
LOCATION A0000478 AREA 721234.877 4131851.675 51.14
LOCATION A0000479 AREA 721214.168 4131867.946 51.07
LOCATION A0000480 AREA 721193.701 4131883.999 50.87
LOCATION A0000481 AREA 721175.286 4131902.815 50.90
LOCATION A0000482 AREA 721157.172 4131921.256 51.22
LOCATION A0000483 AREA 721138.757 4131949.280 51.42
LOCATION A0000484 AREA 721120.495 4131977.035 51.56
LOCATION A0000485 AREA 721108.084 4132002.256 51.39
LOCATION A0000486 AREA 721095.758 4132027.285 51.00
LOCATION A0000487 AREA 721081.502 4132063.487 50.44
LOCATION A0000488 AREA 721076.297 4132109.526 50.38
LOCATION A0000489 AREA 721071.109 4132155.306 50.16
LOCATION A0000490 AREA 721070.744 4132200.004 50.24
LOCATION A0000491 AREA 721070.379 4132244.702 49.93
LOCATION A0000492 AREA 721070.014 4132289.400 49.85
LOCATION A0000493 AREA 721069.649 4132334.098 49.71
LOCATION A0000494 AREA 721069.284 4132378.796 49.76
LOCATION A0000495 AREA 721068.919 4132423.494 49.79
LOCATION A0000496 AREA 721068.554 4132468.192 49.82
LOCATION A0000497 AREA 721067.724 4132514.323 49.80
LOCATION A0000498 AREA 721049.676 4132539.589 49.70
LOCATION A0000499 AREA 721030.713 4132565.639 49.72
LOCATION A0000500 AREA 721001.837 4132580.077 49.81
LOCATION A0000501 AREA 720971.734 4132594.776 49.83
LOCATION A0000502 AREA 720930.225 4132592.971 49.74
LOCATION A0000503 AREA 720888.716 4132591.167 49.70
LOCATION A0000504 AREA 720846.725 4132589.293 49.58
LOCATION A0000505 AREA 720813.337 4132581.172 49.47
LOCATION A0000506 AREA 720780.461 4132573.120 49.26
LOCATION A0000507 AREA 720731.733 4132571.573 49.19
LOCATION A0000508 AREA 720683.005 4132570.026 49.04
LOCATION A0000509 AREA 720634.277 4132568.480 48.93
LOCATION A0000510 AREA 720585.550 4132566.933 48.85
LOCATION A0000511 AREA 720536.822 4132565.386 48.74
LOCATION A0000512 AREA 720488.094 4132563.839 48.88

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** End of LINE AREA Source ID = ARLN5
   LOCATION STCK4        POINT      720781.218  4132562.444       49.150
** DESCRSRC MITC Project locomotive idling at future LMF
   LOCATION STCK5        POINT      720781.207  4132562.320       49.150
** DESCRSRC MITC Hydrogen Variants locomotive idling at future LMF
** Source Parameters **
   SRCPARAM PAREA1             0.0     4.100        14     3.810
   AREAVERT PAREA1       719851.101 4132574.523 720388.949 4132578.767
   AREAVERT PAREA1       720887.546 4132591.497 720929.980 4132588.314
   AREAVERT PAREA1       720986.204 4132584.071 721024.395 4132556.489
   AREAVERT PAREA1       721050.916 4132529.968 721053.038 4132489.656
   AREAVERT PAREA1       721054.098 4132353.868 720903.459 4132358.111
   AREAVERT PAREA1       720750.697 4132428.127 720497.155 4132508.751
   AREAVERT PAREA1       720341.211 4132571.341 719853.223 4132568.158
   SRCPARAM AREA1              0.0     4.100   250.000    54.000    23.180
3.810
   SRCPARAM PAREA2             0.0     4.100         4     3.810
   AREAVERT PAREA2       722427.265 4131309.632 722407.798 4131267.702
   AREAVERT PAREA2       722524.603 4131219.782 722541.076 4131269.200
   SRCPARAM STCK1        0.0000454     3.000   622.000      73.3     0.178

** LINE AREA Source ID = ARLN1
   SRCPARAM A0000001     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000002     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000003     1.862E-11     3.400    67.040     7.000    23.350
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   SRCPARAM A0000004     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000005     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000006     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000007     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000008     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000009     1.862E-11     3.400    67.040     7.000    23.350
3.160
   SRCPARAM A0000010     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000011     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000012     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000013     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000014     1.862E-11     3.400    65.746     7.000   -66.391
3.160
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   SRCPARAM A0000015     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000016     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000017     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000018     1.862E-11     3.400    65.746     7.000   -66.391
3.160
   SRCPARAM A0000019     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000020     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000021     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000022     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000023     1.862E-11     3.400    65.746     7.000   -66.391
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   SRCPARAM A0000024     1.862E-11     3.400    49.857     7.000  -156.124
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   SRCPARAM A0000025     1.862E-11     3.400    49.857     7.000  -156.124
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   SRCPARAM A0000026     1.862E-11     3.400    49.857     7.000  -156.124
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   SRCPARAM A0000027     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000028     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000029     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000030     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000031     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000032     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000033     1.862E-11     3.400    62.281     7.000   113.139
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   SRCPARAM A0000034     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000035     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000036     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000037     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000038     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000039     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000040     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000041     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000042     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000043     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000044     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000045     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000046     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000047     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000048     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000049     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000050     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000051     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000052     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000053     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000054     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000055     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000056     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000057     1.862E-11     3.400    67.359     7.000  -156.731
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   SRCPARAM A0000058     1.862E-11     3.400    69.988     7.000   112.991
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   SRCPARAM A0000059     1.862E-11     3.400    69.988     7.000   112.991
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   SRCPARAM A0000060     1.862E-11     3.400    69.988     7.000   112.991
3.160
   SRCPARAM A0000061     1.862E-11     3.400    69.988     7.000   112.991
3.160
   SRCPARAM A0000062     1.862E-11     3.400    69.988     7.000   112.991
3.160
   SRCPARAM A0000063     1.862E-11     3.400    69.988     7.000   112.991
3.160
   SRCPARAM A0000064     1.862E-11     3.400    69.988     7.000   112.991
3.160
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   SRCPARAM A0000065     1.862E-11     3.400    67.816     7.000    22.937
3.160
   SRCPARAM A0000066     1.862E-11     3.400    67.816     7.000    22.937
3.160
   SRCPARAM A0000067     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000068     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000069     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000070     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000071     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000072     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000073     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000074     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000075     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000076     1.862E-11     3.400    67.816     7.000    22.937
3.160
   SRCPARAM A0000077     1.862E-11     3.400    67.816     7.000    22.937
3.160
   SRCPARAM A0000078     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000079     1.862E-11     3.400    67.816     7.000    22.937
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   SRCPARAM A0000080     1.862E-11     3.400    67.816     7.000    22.937
3.160
   SRCPARAM A0000081     1.862E-11     3.400    67.816     7.000    22.937
3.160
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   SRCPARAM STCK2        0.0000265708     4.600   351.000      3.73     0.666

   SRCPARAM STCK3        0.0000166068     4.600   351.000      3.73     0.666

** LINE AREA Source ID = ARLN2
   SRCPARAM A0000142     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000143     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000144     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000145     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000146     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
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   SRCPARAM A0000147     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000148     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000149     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000150     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000151     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000152     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000153     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000154     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000155     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000156     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000157     1.8373E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000158     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000159     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000160     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000161     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000162     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000163     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000164     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000165     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000166     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000167     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000168     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000169     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000170     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000171     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
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   SRCPARAM A0000172     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000173     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000174     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000175     1.8373E-09     4.800    48.846     5.000  -156.961
2.250
   SRCPARAM A0000176     1.8373E-09     4.800    34.178     5.000  -153.435
2.250
   SRCPARAM A0000177     1.8373E-09     4.800    34.178     5.000  -153.435
2.250
   SRCPARAM A0000178     1.8373E-09     4.800    30.228     5.000  -146.659
2.250
   SRCPARAM A0000179     1.8373E-09     4.800    30.228     5.000  -146.659
2.250
   SRCPARAM A0000180     1.8373E-09     4.800    33.834     5.000  -135.000
2.250
   SRCPARAM A0000181     1.8373E-09     4.800    33.834     5.000  -135.000
2.250
   SRCPARAM A0000182     1.8373E-09     4.800    37.973     5.000  -122.856
2.250
   SRCPARAM A0000183     1.8373E-09     4.800    37.973     5.000  -122.856
2.250
   SRCPARAM A0000184     1.8373E-09     4.800    39.618     5.000  -112.694
2.250
   SRCPARAM A0000185     1.8373E-09     4.800    39.618     5.000  -112.694
2.250
   SRCPARAM A0000186     1.8373E-09     4.800    46.161     5.000   -96.613
2.250
   SRCPARAM A0000187     1.8373E-09     4.800    46.161     5.000   -96.613
2.250
   SRCPARAM A0000188     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
   SRCPARAM A0000189     1.8373E-09     4.800    49.495     5.000   -90.263
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   SRCPARAM A0000190     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
   SRCPARAM A0000191     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
   SRCPARAM A0000192     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
   SRCPARAM A0000193     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
   SRCPARAM A0000194     1.8373E-09     4.800    49.495     5.000   -90.263
2.250
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   SRCPARAM A0000218     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000219     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000221     1.8373E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000261     1.1331E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000262     1.1331E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000263     1.1331E-09     4.800    48.846     5.000  -156.961
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   SRCPARAM A0000287     1.1331E-09     4.800    46.161     5.000   -96.613
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   SRCPARAM A0000301     1.1331E-09     4.800    49.495     5.000   -90.263
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   SRCPARAM A0000310     1.1331E-09     4.800    49.243     5.000  -148.179
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   SRCPARAM A0000321     1.1331E-09     4.800    47.822     5.000  -143.668
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   SRCPARAM A0000580     1.8373E-09    18.400    48.846     5.000  -156.961
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   SRCPARAM A0000623     1.8373E-09    18.400    49.495     5.000   -90.263
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   SRCPARAM A0000634     1.8373E-09    18.400    49.495     5.000   -90.263
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   SRCPARAM A0000635     1.8373E-09    18.400    49.495     5.000   -90.263
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   SRCPARAM A0000659     1.1331E-09    18.400    48.846     5.000  -156.961
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3.160
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   SRCPARAM A0000572     3.9152E-14     3.400    36.680     7.000    -0.291
3.160
   SRCPARAM A0000573     3.9152E-14     3.400    36.680     7.000    -0.291
3.160
```

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** ------------------------------------------------------------------
** LINE AREA Source ID = ARLN5
   SRCPARAM A0000434     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000435     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000436     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000437     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000438     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000439     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000440     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000441     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000442     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000443     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000444     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000445     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000446     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000447     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000448     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000449     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000450     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000451     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000452     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000453     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000454     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000455     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000456     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000457     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
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   SRCPARAM A0000458     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000459     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000460     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000461     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000462     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000463     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000464     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000465     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000466     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000467     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000468     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000469     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000470     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000471     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000472     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000473     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000474     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000475     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000476     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000477     2.6889E-11     4.800    49.772     5.000  -156.815
2.250
   SRCPARAM A0000478     2.6889E-11     4.800    26.336     5.000  -141.844
2.250
   SRCPARAM A0000479     2.6889E-11     4.800    26.336     5.000  -141.844
2.250
   SRCPARAM A0000480     2.6889E-11     4.800    26.329     5.000  -134.384
2.250
   SRCPARAM A0000481     2.6889E-11     4.800    26.329     5.000  -134.384
2.250
   SRCPARAM A0000482     2.6889E-11     4.800    33.533     5.000  -123.311
2.250
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   SRCPARAM A0000483     2.6889E-11     4.800    33.533     5.000  -123.311
2.250
   SRCPARAM A0000484     2.6889E-11     4.800    28.110     5.000  -116.200
2.250
   SRCPARAM A0000485     2.6889E-11     4.800    28.110     5.000  -116.200
2.250
   SRCPARAM A0000486     2.6889E-11     4.800    39.551     5.000  -111.371
2.250
   SRCPARAM A0000487     2.6889E-11     4.800    46.333     5.000   -96.450
2.250
   SRCPARAM A0000488     2.6889E-11     4.800    46.333     5.000   -96.450
2.250
   SRCPARAM A0000489     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000490     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000491     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000492     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000493     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000494     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000495     2.6889E-11     4.800    44.700     5.000   -90.468
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   SRCPARAM A0000496     2.6889E-11     4.800    44.700     5.000   -90.468
2.250
   SRCPARAM A0000497     2.6889E-11     4.800    31.050     5.000  -125.538
2.250
   SRCPARAM A0000498     2.6889E-11     4.800    31.050     5.000  -125.538
2.250
   SRCPARAM A0000499     2.6889E-11     4.800    32.284     5.000  -153.435
2.250
   SRCPARAM A0000500     2.6889E-11     4.800    32.284     5.000  -153.435
2.250
   SRCPARAM A0000501     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000502     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000503     2.6889E-11     4.800    41.548     5.000   177.510
2.250
   SRCPARAM A0000504     2.6889E-11     4.800    34.361     5.000   166.329
2.250
   SRCPARAM A0000505     2.6889E-11     4.800    34.361     5.000   166.329
2.250
   SRCPARAM A0000506     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000507     2.6889E-11     4.800    48.752     5.000   178.182
2.250
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   SRCPARAM A0000508     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000509     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000510     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000511     2.6889E-11     4.800    48.752     5.000   178.182
2.250
   SRCPARAM A0000512     2.6889E-11     4.800    48.752     5.000   178.182
2.250
** ------------------------------------------------------------------
   SRCPARAM STCK4        0.0000398562     4.600   351.000      3.73     0.666

   SRCPARAM STCK5        0.0000249101     4.600   351.000      3.73     0.666

   URBANSRC ALL

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Daytime"
   EMISFACT A0000142     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000142     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000142     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000142     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000143     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000143     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000143     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000143     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000144     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000144     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000144     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000145     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000145     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000145     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000145     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000146     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000146     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000146     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000146     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000147     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000147     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000147     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000147     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000148     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000148     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000148     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000148     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000149     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000149     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000149     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000149     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000151     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000152     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000153     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000155     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000159     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000161     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000161     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000162     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000174     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000263     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000263     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000263     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000263     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000264     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000264     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000264     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000264     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000265     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000265     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000265     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000265     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000266     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000266     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000266     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000266     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000267     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000267     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000267     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000267     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000268     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000268     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000268     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000268     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000269     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000269     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000269     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000269     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000270     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000270     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000270     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000270     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000271     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000271     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000271     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000271     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000272     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000272     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000272     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000272     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000273     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000273     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000273     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000273     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000274     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000274     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000274     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000274     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000275     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000275     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000275     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000275     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000276     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000276     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000276     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000276     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000277     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000277     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000277     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000277     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000278     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000278     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000278     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000278     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000279     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000279     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000279     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000279     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000280     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000280     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000280     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000280     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000281     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000281     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000281     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000281     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000282     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000282     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000282     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000282     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000283     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000283     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000283     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000283     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000284     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000284     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000284     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000284     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000285     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000285     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000285     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000285     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000286     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000286     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000286     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000286     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000287     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000287     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000287     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000287     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000288     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000288     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000288     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000288     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000289     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000289     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000289     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000289     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000290     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000290     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000290     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000290     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000291     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000291     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000291     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000291     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000292     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000292     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000292     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT A0000292     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000293     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000293     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000293     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000293     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000294     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000294     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000294     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000294     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000295     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000295     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000295     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000295     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000296     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000296     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000296     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000296     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000297     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000297     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000297     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000297     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000298     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000298     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000298     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000298     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000299     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000299     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000299     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000299     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000300     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000300     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000300     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000300     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000301     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000301     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000301     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000301     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000302     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000302     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000302     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000302     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000303     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000303     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000303     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000303     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000304     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000304     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000304     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000304     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000305     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT A0000305     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000305     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000305     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000306     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000306     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000306     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000306     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000307     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000307     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000307     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000307     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000308     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000308     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000308     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000308     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000309     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000309     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000309     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000309     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000310     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000310     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000310     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000310     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000311     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000311     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000311     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000311     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000312     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000312     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000312     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000312     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000313     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000313     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000313     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000313     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000314     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000314     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000314     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000314     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000315     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000315     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000315     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000315     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000316     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000316     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000316     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000316     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000317     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000317     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000317     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT A0000317     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000318     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000318     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000318     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000318     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000319     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000319     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000319     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000319     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000320     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000320     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000320     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000320     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000321     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000321     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000321     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000321     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000322     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000322     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000322     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000322     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000323     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000323     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000323     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000323     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Nighttime"
   EMISFACT A0000574     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000574     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000574     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000574     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000575     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000575     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000575     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000575     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000576     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000576     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000576     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000576     HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000577     HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT A0000577     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT A0000577     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000578     HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT A0000579     HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
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** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED "MITC Ops HRA Project.rou"
RE FINISHED
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** AERMOD Meteorology Pathway
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   PROFFILE Merced_18-22.PFL
   SURFDATA 23257 2018
   UAIRDATA 23230 2018 OAKLAND/WSO_AP
   PROFBASE 46.0 METERS
ME FINISHED
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** AERMOD Output Pathway
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OU STARTING
** Auto-Generated Plotfiles
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   PLOTFILE ANNUAL H1varian "MITC Ops HRA Project.AD\AN00G002.PLT" 32
   PLOTFILE ANNUAL H2varian "MITC Ops HRA Project.AD\AN00G003.PLT" 33
   PLOTFILE ANNUAL H3varian "MITC Ops HRA Project.AD\AN00G004.PLT" 34
   SUMMFILE "MITC CONSTRUCT.SUM"
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    North American Datum 1983
** DTMRGN   CONUS
** UNITS    m
** ZONE     10
** ZONEINX  0
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Project minus No Project DPM Increment

X	Y	Net ID	RISK_SUM	Chronic HI	Top 10 Max Cancer		
721117.1	4132066	UCART1	2.48E-07	5.60E-05		8.05E-07	D3277
721142.1	4132066	UCART1	1.95E-07	4.40E-05		7.87E-07	D3276
721167.1	4132066	UCART1	1.68E-07	3.80E-05		7.60E-07	D3278
721192.1	4132066	UCART1	1.41E-07	3.20E-05		7.16E-07	D3275
721217.1	4132066	UCART1	1.33E-07	3.00E-05		6.46E-07	D3274
721242.1	4132066	UCART1	1.15E-07	2.60E-05		6.37E-07	D3279
721267.1	4132066	UCART1	1.15E-07	2.60E-05		5.66E-07	D3273
721292.1	4132066	UCART1	1.06E-07	2.40E-05		5.13E-07	D3244
721317.1	4132066	UCART1	9.73E-08	2.20E-05		5.04E-07	D3243
721342.1	4132066	UCART1	8.84E-08	2.00E-05		5.04E-07	D3243
721367.1	4132066	UCART1	8.84E-08	2.00E-05			
721392.1	4132066	UCART1	7.96E-08	1.80E-05	UCART1 Max Cancer	Chronic	
721417.1	4132066	UCART1	7.96E-08	1.80E-05		2.48E-07	5.60E-05
721442.1	4132066	UCART1	7.96E-08	1.80E-05			
721467.1	4132066	UCART1	7.96E-08	1.80E-05	UCART2 Max Cancer	Chronic	
721492.1	4132066	UCART1	7.07E-08	1.60E-05		1.59E-07	3.60E-05
721517.1	4132066	UCART1	6.19E-08	1.40E-05			
721542.1	4132066	UCART1	6.19E-08	1.40E-05	MrcdStat Min Cancer	Chronic	
721567.1	4132066	UCART1	5.31E-08	1.20E-05		-2.22E-06	-5.02E-04
721592.1	4132066	UCART1	5.31E-08	1.20E-05			
721617.1	4132066	UCART1	5.31E-08	1.20E-05			
721642.1	4132066	UCART1	4.42E-08	1.00E-05			
721667.1	4132066	UCART1	4.42E-08	1.00E-05			
721692.1	4132066	UCART1	3.54E-08	8.00E-06			
721717.1	4132066	UCART1	4.42E-08	1.00E-05			
721742.1	4132066	UCART1	3.54E-08	8.00E-06			
721767.1	4132066	UCART1	2.65E-08	6.00E-06			
721792.1	4132066	UCART1	2.65E-08	6.00E-06			
721817.1	4132066	UCART1	2.65E-08	6.00E-06			
721842.1	4132066	UCART1	1.77E-08	4.00E-06			
721117.1	4132091	UCART1	2.39E-07	5.40E-05			
721142.1	4132091	UCART1	1.77E-07	4.00E-05			
721167.1	4132091	UCART1	1.50E-07	3.40E-05			
721192.1	4132091	UCART1	1.33E-07	3.00E-05			
721217.1	4132091	UCART1	1.33E-07	3.00E-05			
721242.1	4132091	UCART1	1.24E-07	2.80E-05			
721267.1	4132091	UCART1	1.15E-07	2.60E-05			
721292.1	4132091	UCART1	9.73E-08	2.20E-05			
721317.1	4132091	UCART1	9.73E-08	2.20E-05			
721342.1	4132091	UCART1	8.84E-08	2.00E-05			
721367.1	4132091	UCART1	8.84E-08	2.00E-05			
721392.1	4132091	UCART1	7.96E-08	1.80E-05			
721417.1	4132091	UCART1	7.96E-08	1.80E-05			
721442.1	4132091	UCART1	7.96E-08	1.80E-05			
721467.1	4132091	UCART1	7.07E-08	1.60E-05			

H1 Variant

RISK_SUM	Chronic HI	Top 10 Max Cancer		
1.50E-07	3.40E-05		4.95E-07	I3277
1.15E-07	2.60E-05		4.78E-07	I3276
9.73E-08	2.20E-05		4.69E-07	I3278
8.84E-08	2.00E-05		4.42E-07	I3275
7.07E-08	1.60E-05		3.89E-07	I3274
7.07E-08	1.60E-05		3.89E-07	I3274
7.07E-08	1.60E-05		3.45E-07	I3273
6.19E-08	1.40E-05		3.09E-07	I3245
6.19E-08	1.40E-05		3.09E-07	I3244
5.31E-08	1.20E-05		3.01E-07	I3243
4.42E-08	1.00E-05			
4.42E-08	1.00E-05	UCART1 Max Cancer	Chronic	
4.42E-08	1.00E-05		1.50E-07	3.40E-05
4.42E-08	1.00E-05			
4.42E-08	1.00E-05	UCART2 Max Cancer	Chronic	
3.54E-08	8.00E-06		8.84E-08	2.00E-05
3.54E-08	8.00E-06			
3.54E-08	8.00E-06	MrcdStat Min Cancer	Chronic	
3.54E-08	8.00E-06		-1.82E-06	-4.12E-04
2.65E-08	6.00E-06			
2.65E-08	6.00E-06			
1.77E-08	4.00E-06			
2.65E-08	6.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
8.84E-09	2.00E-06			
8.84E-09	2.00E-06			
1.41E-07	3.20E-05			
1.15E-07	2.60E-05			
9.73E-08	2.20E-05			
8.84E-08	2.00E-05			
7.07E-08	1.60E-05			
7.07E-08	1.60E-05			
6.19E-08	1.40E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
3.54E-08	8.00E-06			
3.54E-08	8.00E-06			

H2 Variant

RISK_SUM	Chronic HI	Top 10 Max Cancer		
1.50E-07	3.40E-05		4.95E-07	N3277
1.15E-07	2.60E-05		4.78E-07	N3276
9.73E-08	2.20E-05		4.69E-07	N3278
8.84E-08	2.00E-05		4.42E-07	N3275
7.07E-08	1.60E-05		3.89E-07	N3274
7.07E-08	1.60E-05		3.89E-07	N3274
7.07E-08	1.60E-05		3.45E-07	N3273
6.19E-08	1.40E-05		3.09E-07	N3244
6.19E-08	1.40E-05		3.01E-07	N3243
5.31E-08	1.20E-05		3.01E-07	N3243
4.42E-08	1.00E-05			
4.42E-08	1.00E-05	UCART1 Max Cancer	Chronic	
4.42E-08	1.00E-05		1.50E-07	3.40E-05
4.42E-08	1.00E-05			
4.42E-08	1.00E-05	UCART2 Max Cancer	Chronic	
3.54E-08	8.00E-06		8.84E-08	2.00E-05
3.54E-08	8.00E-06			
3.54E-08	8.00E-06	MrcdStat Min Cancer	Chronic	
3.54E-08	8.00E-06		-1.82E-06	-4.12E-04
2.65E-08	6.00E-06			
2.65E-08	6.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
8.84E-09	2.00E-06			
8.84E-09	2.00E-06			
1.41E-07	3.20E-05			
1.15E-07	2.60E-05			
9.73E-08	2.20E-05			
8.84E-08	2.00E-05			
7.07E-08	1.60E-05			
7.07E-08	1.60E-05			
6.19E-08	1.40E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
3.54E-08	8.00E-06			
3.54E-08	8.00E-06			

721492.1	4132091	UCART1	6.19E-08	1.40E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721517.1	4132091	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721542.1	4132091	UCART1	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721567.1	4132091	UCART1	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721592.1	4132091	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721617.1	4132091	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721642.1	4132091	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721667.1	4132091	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721692.1	4132091	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721717.1	4132091	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721742.1	4132091	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721767.1	4132091	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721792.1	4132091	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721817.1	4132091	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721842.1	4132091	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721117.1	4132116	UCART1	2.21E-07	5.00E-05	1.33E-07	3.00E-05	1.33E-07	3.00E-05
721142.1	4132116	UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132116	UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132116	UCART1	1.41E-07	3.20E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721217.1	4132116	UCART1	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721242.1	4132116	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721267.1	4132116	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721292.1	4132116	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132116	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721342.1	4132116	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721367.1	4132116	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721392.1	4132116	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721417.1	4132116	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721442.1	4132116	UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721467.1	4132116	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721492.1	4132116	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721517.1	4132116	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721542.1	4132116	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721567.1	4132116	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721592.1	4132116	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721617.1	4132116	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721642.1	4132116	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721667.1	4132116	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721692.1	4132116	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721717.1	4132116	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721742.1	4132116	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721767.1	4132116	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721792.1	4132116	UCART1	2.65E-08	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721817.1	4132116	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721842.1	4132116	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721117.1	4132141	UCART1	2.12E-07	4.80E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132141	UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05

721167.1	4132141	UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132141	UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721217.1	4132141	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721242.1	4132141	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721267.1	4132141	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721292.1	4132141	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132141	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721342.1	4132141	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721367.1	4132141	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721392.1	4132141	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721417.1	4132141	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721442.1	4132141	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721467.1	4132141	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721492.1	4132141	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721517.1	4132141	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721542.1	4132141	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721567.1	4132141	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721592.1	4132141	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721617.1	4132141	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721642.1	4132141	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721667.1	4132141	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721692.1	4132141	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721717.1	4132141	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721742.1	4132141	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721767.1	4132141	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721792.1	4132141	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721817.1	4132141	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721842.1	4132141	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721117.1	4132166	UCART1	2.12E-07	4.80E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132166	UCART1	1.77E-07	4.00E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
721167.1	4132166	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132166	UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721217.1	4132166	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721242.1	4132166	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721267.1	4132166	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721292.1	4132166	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132166	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721342.1	4132166	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721367.1	4132166	UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721392.1	4132166	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721417.1	4132166	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721442.1	4132166	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721467.1	4132166	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721492.1	4132166	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721517.1	4132166	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721542.1	4132166	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721567.1	4132166	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06

721592.1	4132166	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721617.1	4132166	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721642.1	4132166	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721667.1	4132166	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721692.1	4132166	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721717.1	4132166	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721742.1	4132166	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721767.1	4132166	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721792.1	4132166	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721817.1	4132166	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721842.1	4132166	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721117.1	4132191	UCART1	2.12E-07	4.80E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132191	UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132191	UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132191	UCART1	1.33E-07	3.00E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721217.1	4132191	UCART1	1.15E-07	2.60E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721242.1	4132191	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721267.1	4132191	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721292.1	4132191	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132191	UCART1	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721342.1	4132191	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721367.1	4132191	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721392.1	4132191	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721417.1	4132191	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721442.1	4132191	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721467.1	4132191	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721492.1	4132191	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721517.1	4132191	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721542.1	4132191	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721567.1	4132191	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721592.1	4132191	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721617.1	4132191	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721642.1	4132191	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721667.1	4132191	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721692.1	4132191	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721717.1	4132191	UCART1	8.85E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721742.1	4132191	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721767.1	4132191	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721792.1	4132191	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721817.1	4132191	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721842.1	4132191	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721117.1	4132216	UCART1	2.12E-07	4.80E-05	1.33E-07	3.00E-05	1.33E-07	3.00E-05
721142.1	4132216	UCART1	1.68E-07	3.80E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
721167.1	4132216	UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132216	UCART1	1.24E-07	2.80E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721217.1	4132216	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721242.1	4132216	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05

721267.1	4132216	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721292.1	4132216	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132216	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721342.1	4132216	UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721367.1	4132216	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721392.1	4132216	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721417.1	4132216	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721442.1	4132216	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721467.1	4132216	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721492.1	4132216	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721517.1	4132216	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132216	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721567.1	4132216	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721592.1	4132216	UCART1	3.54E-08	8.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132216	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721642.1	4132216	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721667.1	4132216	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721692.1	4132216	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721717.1	4132216	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721742.1	4132216	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721767.1	4132216	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721792.1	4132216	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721817.1	4132216	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721842.1	4132216	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721117.1	4132241	UCART1	2.12E-07	4.80E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132241	UCART1	1.68E-07	3.80E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132241	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132241	UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721217.1	4132241	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721242.1	4132241	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721267.1	4132241	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721292.1	4132241	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721317.1	4132241	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721342.1	4132241	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132241	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721392.1	4132241	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721417.1	4132241	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721442.1	4132241	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721467.1	4132241	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721492.1	4132241	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721517.1	4132241	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132241	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721567.1	4132241	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721592.1	4132241	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132241	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721642.1	4132241	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721667.1	4132241	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

721692.1	4132241	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721717.1	4132241	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721742.1	4132241	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721767.1	4132241	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721792.1	4132241	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721817.1	4132241	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721842.1	4132241	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721117.1	4132266	UCART1	2.21E-07	5.00E-05	1.33E-07	3.00E-05	1.33E-07	3.00E-05
721142.1	4132266	UCART1	1.68E-07	3.80E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132266	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132266	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721217.1	4132266	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721242.1	4132266	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721267.1	4132266	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721292.1	4132266	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721317.1	4132266	UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721342.1	4132266	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132266	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721392.1	4132266	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721417.1	4132266	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721442.1	4132266	UCART1	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721467.1	4132266	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721492.1	4132266	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721517.1	4132266	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132266	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721567.1	4132266	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721592.1	4132266	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132266	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721642.1	4132266	UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721667.1	4132266	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721692.1	4132266	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721717.1	4132266	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721742.1	4132266	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721767.1	4132266	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721792.1	4132266	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721817.1	4132266	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721842.1	4132266	UCART1	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721117.1	4132291	UCART1	2.12E-07	4.80E-05	1.33E-07	3.00E-05	1.33E-07	3.00E-05
721142.1	4132291	UCART1	1.68E-07	3.80E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132291	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132291	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721217.1	4132291	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721242.1	4132291	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721267.1	4132291	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721292.1	4132291	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721317.1	4132291	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132291	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05

721367.1	4132291	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721392.1	4132291	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721417.1	4132291	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721442.1	4132291	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721467.1	4132291	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721492.1	4132291	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721517.1	4132291	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132291	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721567.1	4132291	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721592.1	4132291	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132291	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721642.1	4132291	UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721667.1	4132291	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721692.1	4132291	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721717.1	4132291	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721742.1	4132291	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721767.1	4132291	UCART1	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721792.1	4132291	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721817.1	4132291	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721842.1	4132291	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721117.1	4132316	UCART1	2.12E-07	4.80E-05	1.33E-07	3.00E-05	1.33E-07	3.00E-05
721142.1	4132316	UCART1	1.68E-07	3.80E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721167.1	4132316	UCART1	1.33E-07	3.00E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721192.1	4132316	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721217.1	4132316	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721242.1	4132316	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721267.1	4132316	UCART1	7.96E-08	1.80E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721292.1	4132316	UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721317.1	4132316	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132316	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132316	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721392.1	4132316	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721417.1	4132316	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721442.1	4132316	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721467.1	4132316	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721492.1	4132316	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721517.1	4132316	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132316	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721567.1	4132316	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721592.1	4132316	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132316	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721642.1	4132316	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721667.1	4132316	UCART1	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721692.1	4132316	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06
721717.1	4132316	UCART1	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721742.1	4132316	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721767.1	4132316	UCART1	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06

721792.1	4132316	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721817.1	4132316	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721842.1	4132316	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721117.1	4132341	UCART1	2.03E-07	4.60E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132341	UCART1	1.59E-07	3.60E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
721167.1	4132341	UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721192.1	4132341	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721217.1	4132341	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721242.1	4132341	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721267.1	4132341	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721292.1	4132341	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132341	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132341	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132341	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721392.1	4132341	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721417.1	4132341	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721442.1	4132341	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721467.1	4132341	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721492.1	4132341	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721517.1	4132341	UCART1	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721542.1	4132341	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721567.1	4132341	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721592.1	4132341	UCART1	8.84E-09	2.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721617.1	4132341	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721642.1	4132341	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721667.1	4132341	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721692.1	4132341	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721717.1	4132341	UCART1	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721742.1	4132341	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721767.1	4132341	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721792.1	4132341	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721817.1	4132341	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721842.1	4132341	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721117.1	4132366	UCART1	2.03E-07	4.60E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
721142.1	4132366	UCART1	1.59E-07	3.60E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
721167.1	4132366	UCART1	1.24E-07	2.80E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721192.1	4132366	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132366	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721242.1	4132366	UCART1	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132366	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721292.1	4132366	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132366	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132366	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132366	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721392.1	4132366	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721417.1	4132366	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721442.1	4132366	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06

721467.1	4132366	UCART1	3.54E-08	8.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721492.1	4132366	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721517.1	4132366	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721542.1	4132366	UCART1	8.85E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721567.1	4132366	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721592.1	4132366	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721617.1	4132366	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721642.1	4132366	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721667.1	4132366	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721692.1	4132366	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721717.1	4132366	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721742.1	4132366	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721767.1	4132366	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721792.1	4132366	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721817.1	4132366	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721842.1	4132366	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721117.1	4132391	UCART1	2.03E-07	4.60E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132391	UCART1	1.50E-07	3.40E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
721167.1	4132391	UCART1	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721192.1	4132391	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132391	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721242.1	4132391	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132391	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132391	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132391	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132391	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721367.1	4132391	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721392.1	4132391	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721417.1	4132391	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721442.1	4132391	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721467.1	4132391	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721492.1	4132391	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721517.1	4132391	UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721542.1	4132391	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721567.1	4132391	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721592.1	4132391	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721617.1	4132391	UCART1	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721642.1	4132391	UCART1	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721667.1	4132391	UCART1	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721692.1	4132391	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721717.1	4132391	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721742.1	4132391	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721767.1	4132391	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721792.1	4132391	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721817.1	4132391	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721842.1	4132391	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721117.1	4132416	UCART1	1.95E-07	4.40E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05

721142.1	4132416 UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721167.1	4132416 UCART1	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721192.1	4132416 UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132416 UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721242.1	4132416 UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132416 UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132416 UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132416 UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132416 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721367.1	4132416 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721392.1	4132416 UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721417.1	4132416 UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721442.1	4132416 UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721467.1	4132416 UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721492.1	4132416 UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721517.1	4132416 UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721542.1	4132416 UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721567.1	4132416 UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721592.1	4132416 UCART1	-8.84E-09	-2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721617.1	4132416 UCART1	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721642.1	4132416 UCART1	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721667.1	4132416 UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721692.1	4132416 UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721717.1	4132416 UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721742.1	4132416 UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721767.1	4132416 UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721792.1	4132416 UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721817.1	4132416 UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721842.1	4132416 UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721117.1	4132441 UCART1	1.95E-07	4.40E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132441 UCART1	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721167.1	4132441 UCART1	1.15E-07	2.60E-05	7.08E-08	1.60E-05	7.08E-08	1.60E-05
721192.1	4132441 UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132441 UCART1	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132441 UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132441 UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132441 UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132441 UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132441 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721367.1	4132441 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721392.1	4132441 UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721417.1	4132441 UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721442.1	4132441 UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721467.1	4132441 UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721492.1	4132441 UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721517.1	4132441 UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721542.1	4132441 UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

721567.1	4132441	UCART1	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721592.1	4132441	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721617.1	4132441	UCART1	-1.77E-08	-4.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721642.1	4132441	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721667.1	4132441	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721692.1	4132441	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721717.1	4132441	UCART1	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721742.1	4132441	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721767.1	4132441	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721792.1	4132441	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721817.1	4132441	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721842.1	4132441	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721117.1	4132466	UCART1	1.95E-07	4.40E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132466	UCART1	1.41E-07	3.20E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721167.1	4132466	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721192.1	4132466	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132466	UCART1	7.96E-08	1.80E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721242.1	4132466	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132466	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132466	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721317.1	4132466	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721342.1	4132466	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721367.1	4132466	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721392.1	4132466	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721417.1	4132466	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721442.1	4132466	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721467.1	4132466	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721492.1	4132466	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721517.1	4132466	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721542.1	4132466	UCART1	-8.84E-09	-2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721567.1	4132466	UCART1	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721592.1	4132466	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721617.1	4132466	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721642.1	4132466	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721667.1	4132466	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721692.1	4132466	UCART1	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721717.1	4132466	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721742.1	4132466	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721767.1	4132466	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721792.1	4132466	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721817.1	4132466	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721842.1	4132466	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721117.1	4132491	UCART1	1.86E-07	4.20E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132491	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721167.1	4132491	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721192.1	4132491	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132491	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05

721242.1	4132491	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132491	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132491	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721317.1	4132491	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721342.1	4132491	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721367.1	4132491	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721392.1	4132491	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721417.1	4132491	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721442.1	4132491	UCART1	8.85E-09	2.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721467.1	4132491	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721492.1	4132491	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721517.1	4132491	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721542.1	4132491	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721567.1	4132491	UCART1	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721592.1	4132491	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721617.1	4132491	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721642.1	4132491	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721667.1	4132491	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721692.1	4132491	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721717.1	4132491	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721742.1	4132491	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721767.1	4132491	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721792.1	4132491	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721817.1	4132491	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721842.1	4132491	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721117.1	4132516	UCART1	1.86E-07	4.20E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132516	UCART1	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721167.1	4132516	UCART1	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721192.1	4132516	UCART1	9.73E-08	2.20E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721217.1	4132516	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132516	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721267.1	4132516	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132516	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721317.1	4132516	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721342.1	4132516	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721367.1	4132516	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721392.1	4132516	UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721417.1	4132516	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721442.1	4132516	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721467.1	4132516	UCART1	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721492.1	4132516	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721517.1	4132516	UCART1	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721542.1	4132516	UCART1	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721567.1	4132516	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721592.1	4132516	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721617.1	4132516	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721642.1	4132516	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06

721667.1	4132516	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721692.1	4132516	UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721717.1	4132516	UCART1	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721742.1	4132516	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721767.1	4132516	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721792.1	4132516	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721817.1	4132516	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721842.1	4132516	UCART1	-7.96E-08	-1.80E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721117.1	4132541	UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721142.1	4132541	UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721167.1	4132541	UCART1	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721192.1	4132541	UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721217.1	4132541	UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132541	UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721267.1	4132541	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132541	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721317.1	4132541	UCART1	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721342.1	4132541	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721367.1	4132541	UCART1	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721392.1	4132541	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721417.1	4132541	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721442.1	4132541	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721467.1	4132541	UCART1	-8.84E-09	-2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721492.1	4132541	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721517.1	4132541	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721542.1	4132541	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721567.1	4132541	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721592.1	4132541	UCART1	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721617.1	4132541	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721642.1	4132541	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721667.1	4132541	UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721692.1	4132541	UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721717.1	4132541	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721742.1	4132541	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721767.1	4132541	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721792.1	4132541	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721817.1	4132541	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721842.1	4132541	UCART1	-7.96E-08	-1.80E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721117.1	4132566	UCART1	1.86E-07	4.20E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
721142.1	4132566	UCART1	1.41E-07	3.20E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721167.1	4132566	UCART1	1.15E-07	2.60E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721192.1	4132566	UCART1	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721217.1	4132566	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132566	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721267.1	4132566	UCART1	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721292.1	4132566	UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721317.1	4132566	UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06

721342.1	4132566	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721367.1	4132566	UCART1	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721392.1	4132566	UCART1	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721417.1	4132566	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721442.1	4132566	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721467.1	4132566	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721492.1	4132566	UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721517.1	4132566	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721542.1	4132566	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721567.1	4132566	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721592.1	4132566	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721617.1	4132566	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721642.1	4132566	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721667.1	4132566	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721692.1	4132566	UCART1	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721717.1	4132566	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721742.1	4132566	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721767.1	4132566	UCART1	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721792.1	4132566	UCART1	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721817.1	4132566	UCART1	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721842.1	4132566	UCART1	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721117.1	4132591	UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721142.1	4132591	UCART1	1.33E-07	3.00E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721167.1	4132591	UCART1	1.06E-07	2.40E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721192.1	4132591	UCART1	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721217.1	4132591	UCART1	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132591	UCART1	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721267.1	4132591	UCART1	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721292.1	4132591	UCART1	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721317.1	4132591	UCART1	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721342.1	4132591	UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721367.1	4132591	UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721392.1	4132591	UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721417.1	4132591	UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721442.1	4132591	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721467.1	4132591	UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721492.1	4132591	UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721517.1	4132591	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721542.1	4132591	UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721567.1	4132591	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721592.1	4132591	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721617.1	4132591	UCART1	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721642.1	4132591	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721667.1	4132591	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721692.1	4132591	UCART1	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721717.1	4132591	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721742.1	4132591	UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05

721767.1	4132591 UCART1	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721792.1	4132591 UCART1	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721817.1	4132591 UCART1	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721842.1	4132591 UCART1	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721117.1	4132616 UCART1	1.77E-07	4.00E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721142.1	4132616 UCART1	1.33E-07	3.00E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721167.1	4132616 UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721192.1	4132616 UCART1	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721217.1	4132616 UCART1	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721242.1	4132616 UCART1	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721267.1	4132616 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721292.1	4132616 UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721317.1	4132616 UCART1	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721342.1	4132616 UCART1	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721367.1	4132616 UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721392.1	4132616 UCART1	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721417.1	4132616 UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721442.1	4132616 UCART1	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721467.1	4132616 UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721492.1	4132616 UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721517.1	4132616 UCART1	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721542.1	4132616 UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721567.1	4132616 UCART1	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721592.1	4132616 UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721617.1	4132616 UCART1	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721642.1	4132616 UCART1	-7.07E-08	-1.60E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721667.1	4132616 UCART1	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721692.1	4132616 UCART1	-7.96E-08	-1.80E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721717.1	4132616 UCART1	-7.96E-08	-1.80E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721742.1	4132616 UCART1	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721767.1	4132616 UCART1	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721792.1	4132616 UCART1	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721817.1	4132616 UCART1	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721842.1	4132616 UCART1	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721117.1	4132641 UCART1	1.68E-07	3.80E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
721142.1	4132641 UCART1	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721167.1	4132641 UCART1	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721192.1	4132641 UCART1	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721217.1	4132641 UCART1	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721242.1	4132641 UCART1	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721267.1	4132641 UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721292.1	4132641 UCART1	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721317.1	4132641 UCART1	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721342.1	4132641 UCART1	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721367.1	4132641 UCART1	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721392.1	4132641 UCART1	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721417.1	4132641 UCART1	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06

721442.1	4132641	UCART1	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721467.1	4132641	UCART1	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721492.1	4132641	UCART1	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721517.1	4132641	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721542.1	4132641	UCART1	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721567.1	4132641	UCART1	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721592.1	4132641	UCART1	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721617.1	4132641	UCART1	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721642.1	4132641	UCART1	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721667.1	4132641	UCART1	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721692.1	4132641	UCART1	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721717.1	4132641	UCART1	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721742.1	4132641	UCART1	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721767.1	4132641	UCART1	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721792.1	4132641	UCART1	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721817.1	4132641	UCART1	-1.33E-07	-3.00E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721842.1	4132641	UCART1	-1.41E-07	-3.20E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721122.3	4132648	UCART2	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132648	UCART2	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721172.3	4132648	UCART2	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721197.3	4132648	UCART2	7.08E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721222.3	4132648	UCART2	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721247.3	4132648	UCART2	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721272.3	4132648	UCART2	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721297.3	4132648	UCART2	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721322.3	4132648	UCART2	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721347.3	4132648	UCART2	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721372.3	4132648	UCART2	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721397.3	4132648	UCART2	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721422.3	4132648	UCART2	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721447.3	4132648	UCART2	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721472.3	4132648	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721497.3	4132648	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721522.3	4132648	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721547.3	4132648	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721572.3	4132648	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721597.3	4132648	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721622.3	4132648	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721122.3	4132673	UCART2	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132673	UCART2	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721172.3	4132673	UCART2	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721197.3	4132673	UCART2	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721222.3	4132673	UCART2	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721247.3	4132673	UCART2	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721272.3	4132673	UCART2	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721297.3	4132673	UCART2	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721322.3	4132673	UCART2	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

721347.3	4132673	UCART2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721372.3	4132673	UCART2	-8.84E-09	-2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721397.3	4132673	UCART2	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721422.3	4132673	UCART2	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721447.3	4132673	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721472.3	4132673	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721497.3	4132673	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721522.3	4132673	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721547.3	4132673	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721572.3	4132673	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721597.3	4132673	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721622.3	4132673	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721122.3	4132698	UCART2	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132698	UCART2	1.15E-07	2.60E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721172.3	4132698	UCART2	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721197.3	4132698	UCART2	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721222.3	4132698	UCART2	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721247.3	4132698	UCART2	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721272.3	4132698	UCART2	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721297.3	4132698	UCART2	8.85E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721322.3	4132698	UCART2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721347.3	4132698	UCART2	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721372.3	4132698	UCART2	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721397.3	4132698	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721422.3	4132698	UCART2	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721447.3	4132698	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721472.3	4132698	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721497.3	4132698	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721522.3	4132698	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721547.3	4132698	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721572.3	4132698	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721597.3	4132698	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721622.3	4132698	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721122.3	4132723	UCART2	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132723	UCART2	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721172.3	4132723	UCART2	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721197.3	4132723	UCART2	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721222.3	4132723	UCART2	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721247.3	4132723	UCART2	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721272.3	4132723	UCART2	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721297.3	4132723	UCART2	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721322.3	4132723	UCART2	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721347.3	4132723	UCART2	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721372.3	4132723	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721397.3	4132723	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721422.3	4132723	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721447.3	4132723	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06

721472.3	4132723	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721497.3	4132723	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721522.3	4132723	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721547.3	4132723	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721572.3	4132723	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721597.3	4132723	UCART2	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721622.3	4132723	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721122.3	4132748	UCART2	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132748	UCART2	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
721172.3	4132748	UCART2	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721197.3	4132748	UCART2	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721222.3	4132748	UCART2	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721247.3	4132748	UCART2	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721272.3	4132748	UCART2	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721297.3	4132748	UCART2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721322.3	4132748	UCART2	-1.77E-08	-4.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721347.3	4132748	UCART2	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721372.3	4132748	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721397.3	4132748	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721422.3	4132748	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721447.3	4132748	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721472.3	4132748	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721497.3	4132748	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721522.3	4132748	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721547.3	4132748	UCART2	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721572.3	4132748	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721597.3	4132748	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721622.3	4132748	UCART2	-1.59E-07	-3.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721122.3	4132773	UCART2	1.41E-07	3.20E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
721147.3	4132773	UCART2	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721172.3	4132773	UCART2	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721197.3	4132773	UCART2	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721222.3	4132773	UCART2	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721247.3	4132773	UCART2	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721272.3	4132773	UCART2	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721297.3	4132773	UCART2	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721322.3	4132773	UCART2	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721347.3	4132773	UCART2	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721372.3	4132773	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721397.3	4132773	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721422.3	4132773	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721447.3	4132773	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721472.3	4132773	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721497.3	4132773	UCART2	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721522.3	4132773	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721547.3	4132773	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721572.3	4132773	UCART2	-1.59E-07	-3.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05

721597.3	4132773	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721622.3	4132773	UCART2	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721122.3	4132798	UCART2	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721147.3	4132798	UCART2	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721172.3	4132798	UCART2	6.19E-08	1.40E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721197.3	4132798	UCART2	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721222.3	4132798	UCART2	2.65E-08	6.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721247.3	4132798	UCART2	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721272.3	4132798	UCART2	-8.85E-09	-2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721297.3	4132798	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721322.3	4132798	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721347.3	4132798	UCART2	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721372.3	4132798	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721397.3	4132798	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721422.3	4132798	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721447.3	4132798	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721472.3	4132798	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721497.3	4132798	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721522.3	4132798	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721547.3	4132798	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721572.3	4132798	UCART2	-2.03E-07	-4.60E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721597.3	4132798	UCART2	-2.39E-07	-5.40E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
721622.3	4132798	UCART2	-2.74E-07	-6.20E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721122.3	4132823	UCART2	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721147.3	4132823	UCART2	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721172.3	4132823	UCART2	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721197.3	4132823	UCART2	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721222.3	4132823	UCART2	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721247.3	4132823	UCART2	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721272.3	4132823	UCART2	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721297.3	4132823	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721322.3	4132823	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721347.3	4132823	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721372.3	4132823	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721397.3	4132823	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721422.3	4132823	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721447.3	4132823	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721472.3	4132823	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721497.3	4132823	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721522.3	4132823	UCART2	-2.03E-07	-4.60E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721547.3	4132823	UCART2	-2.48E-07	-5.60E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
721572.3	4132823	UCART2	-2.92E-07	-6.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721597.3	4132823	UCART2	-3.36E-07	-7.60E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
721622.3	4132823	UCART2	-3.01E-07	-6.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
721122.3	4132848	UCART2	1.24E-07	2.80E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
721147.3	4132848	UCART2	7.96E-08	1.80E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721172.3	4132848	UCART2	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06

721197.3	4132848	UCART2	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721222.3	4132848	UCART2	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721247.3	4132848	UCART2	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721272.3	4132848	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721297.3	4132848	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721322.3	4132848	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721347.3	4132848	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721372.3	4132848	UCART2	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721397.3	4132848	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721422.3	4132848	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721447.3	4132848	UCART2	-1.77E-07	-4.00E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721472.3	4132848	UCART2	-2.12E-07	-4.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721497.3	4132848	UCART2	-2.56E-07	-5.80E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
721522.3	4132848	UCART2	-2.92E-07	-6.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721547.3	4132848	UCART2	-3.36E-07	-7.60E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
721572.3	4132848	UCART2	-2.74E-07	-6.20E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721597.3	4132848	UCART2	-2.21E-07	-5.00E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
721622.3	4132848	UCART2	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721122.3	4132873	UCART2	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721147.3	4132873	UCART2	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721172.3	4132873	UCART2	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721197.3	4132873	UCART2	8.85E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721222.3	4132873	UCART2	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721247.3	4132873	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721272.3	4132873	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721297.3	4132873	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721322.3	4132873	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721347.3	4132873	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721372.3	4132873	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721397.3	4132873	UCART2	-1.86E-07	-4.20E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721422.3	4132873	UCART2	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
721447.3	4132873	UCART2	-2.56E-07	-5.80E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
721472.3	4132873	UCART2	-3.01E-07	-6.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
721497.3	4132873	UCART2	-3.45E-07	-7.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
721522.3	4132873	UCART2	-2.48E-07	-5.60E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
721547.3	4132873	UCART2	-2.03E-07	-4.60E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721572.3	4132873	UCART2	-1.77E-07	-4.00E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721597.3	4132873	UCART2	-1.59E-07	-3.60E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721622.3	4132873	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721122.3	4132898	UCART2	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
721147.3	4132898	UCART2	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721172.3	4132898	UCART2	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721197.3	4132898	UCART2	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721222.3	4132898	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721247.3	4132898	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721272.3	4132898	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721297.3	4132898	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05

721322.3	4132898	UCART2	-1.41E-07	-3.20E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721347.3	4132898	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721372.3	4132898	UCART2	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
721397.3	4132898	UCART2	-2.65E-07	-6.00E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
721422.3	4132898	UCART2	-3.09E-07	-7.00E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
721447.3	4132898	UCART2	-3.27E-07	-7.40E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
721472.3	4132898	UCART2	-2.30E-07	-5.20E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
721497.3	4132898	UCART2	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721522.3	4132898	UCART2	-1.68E-07	-3.80E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721547.3	4132898	UCART2	-1.41E-07	-3.20E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721572.3	4132898	UCART2	-1.24E-07	-2.80E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721597.3	4132898	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721622.3	4132898	UCART2	-1.06E-07	-2.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721122.3	4132923	UCART2	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
721147.3	4132923	UCART2	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721172.3	4132923	UCART2	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721197.3	4132923	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721222.3	4132923	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721247.3	4132923	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721272.3	4132923	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721297.3	4132923	UCART2	-1.68E-07	-3.80E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721322.3	4132923	UCART2	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
721347.3	4132923	UCART2	-2.65E-07	-6.00E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721372.3	4132923	UCART2	-3.09E-07	-7.00E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
721397.3	4132923	UCART2	-2.92E-07	-6.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721422.3	4132923	UCART2	-2.12E-07	-4.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721447.3	4132923	UCART2	-1.86E-07	-4.20E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721472.3	4132923	UCART2	-1.59E-07	-3.60E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721497.3	4132923	UCART2	-1.33E-07	-3.00E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721522.3	4132923	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721547.3	4132923	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721572.3	4132923	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721597.3	4132923	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721622.3	4132923	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721122.3	4132948	UCART2	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721147.3	4132948	UCART2	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721172.3	4132948	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721197.3	4132948	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721222.3	4132948	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721247.3	4132948	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721272.3	4132948	UCART2	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721297.3	4132948	UCART2	-2.48E-07	-5.60E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
721322.3	4132948	UCART2	-3.09E-07	-7.00E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
721347.3	4132948	UCART2	-2.83E-07	-6.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721372.3	4132948	UCART2	-2.12E-07	-4.80E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721397.3	4132948	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721422.3	4132948	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05

721447.3	4132948	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721472.3	4132948	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721497.3	4132948	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721522.3	4132948	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721547.3	4132948	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721572.3	4132948	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721597.3	4132948	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721622.3	4132948	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721122.3	4132973	UCART2	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721147.3	4132973	UCART2	-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721172.3	4132973	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721197.3	4132973	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721222.3	4132973	UCART2	-1.77E-07	-4.00E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721247.3	4132973	UCART2	-2.39E-07	-5.40E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
721272.3	4132973	UCART2	-3.01E-07	-6.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
721297.3	4132973	UCART2	-2.74E-07	-6.20E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721322.3	4132973	UCART2	-2.03E-07	-4.60E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721347.3	4132973	UCART2	-1.59E-07	-3.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721372.3	4132973	UCART2	-1.41E-07	-3.20E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721397.3	4132973	UCART2	-1.15E-07	-2.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721422.3	4132973	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721447.3	4132973	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721472.3	4132973	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721497.3	4132973	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721522.3	4132973	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721547.3	4132973	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721572.3	4132973	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721597.3	4132973	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721622.3	4132973	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721122.3	4132998	UCART2	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721147.3	4132998	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721172.3	4132998	UCART2	-1.41E-07	-3.20E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721197.3	4132998	UCART2	-2.12E-07	-4.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
721222.3	4132998	UCART2	-2.92E-07	-6.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721247.3	4132998	UCART2	-2.74E-07	-6.20E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721272.3	4132998	UCART2	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
721297.3	4132998	UCART2	-1.59E-07	-3.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721322.3	4132998	UCART2	-1.41E-07	-3.20E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721347.3	4132998	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721372.3	4132998	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721397.3	4132998	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721422.3	4132998	UCART2	-7.96E-08	-1.80E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721447.3	4132998	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721472.3	4132998	UCART2	-7.07E-08	-1.60E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721497.3	4132998	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721522.3	4132998	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721547.3	4132998	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06

721572.3	4132998	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721597.3	4132998	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721622.3	4132998	UCART2	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721122.3	4133023	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721147.3	4133023	UCART2	-1.59E-07	-3.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721172.3	4133023	UCART2	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
721197.3	4133023	UCART2	-3.01E-07	-6.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721222.3	4133023	UCART2	-1.86E-07	-4.20E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721247.3	4133023	UCART2	-1.50E-07	-3.40E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
721272.3	4133023	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721297.3	4133023	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721322.3	4133023	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721347.3	4133023	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721372.3	4133023	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721397.3	4133023	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721422.3	4133023	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721447.3	4133023	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721472.3	4133023	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721497.3	4133023	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721522.3	4133023	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721547.3	4133023	UCART2	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721572.3	4133023	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721597.3	4133023	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721622.3	4133023	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721122.3	4133048	UCART2	-1.77E-07	-4.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
721147.3	4133048	UCART2	-2.74E-07	-6.20E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
721172.3	4133048	UCART2	-1.77E-07	-4.00E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
721197.3	4133048	UCART2	-1.50E-07	-3.40E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721222.3	4133048	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
721247.3	4133048	UCART2	-1.06E-07	-2.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721272.3	4133048	UCART2	-8.84E-08	-2.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721297.3	4133048	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721322.3	4133048	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721347.3	4133048	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721372.3	4133048	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721397.3	4133048	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721422.3	4133048	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721447.3	4133048	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721472.3	4133048	UCART2	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721497.3	4133048	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721522.3	4133048	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721547.3	4133048	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721572.3	4133048	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721597.3	4133048	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721622.3	4133048	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721122.3	4133073	UCART2	-1.41E-07	-3.20E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
721147.3	4133073	UCART2	-1.24E-07	-2.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05

721172.3	4133073	UCART2	-1.15E-07	-2.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
721197.3	4133073	UCART2	-9.73E-08	-2.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
721222.3	4133073	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721247.3	4133073	UCART2	-7.96E-08	-1.80E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721272.3	4133073	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721297.3	4133073	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721322.3	4133073	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721347.3	4133073	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721372.3	4133073	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721397.3	4133073	UCART2	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721422.3	4133073	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721447.3	4133073	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721472.3	4133073	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721497.3	4133073	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721522.3	4133073	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721547.3	4133073	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721572.3	4133073	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721597.3	4133073	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721622.3	4133073	UCART2	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721122.3	4133098	UCART2	-8.84E-08	-2.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
721147.3	4133098	UCART2	-7.96E-08	-1.80E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721172.3	4133098	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721197.3	4133098	UCART2	-7.07E-08	-1.60E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721222.3	4133098	UCART2	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721247.3	4133098	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721272.3	4133098	UCART2	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
721297.3	4133098	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721322.3	4133098	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721347.3	4133098	UCART2	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721372.3	4133098	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721397.3	4133098	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721422.3	4133098	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721447.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721472.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721497.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721522.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721547.3	4133098	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721572.3	4133098	UCART2	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721597.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721622.3	4133098	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721122.3	4133123	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721147.3	4133123	UCART2	-6.19E-08	-1.40E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721172.3	4133123	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721197.3	4133123	UCART2	-5.31E-08	-1.20E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721222.3	4133123	UCART2	-5.31E-08	-1.20E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721247.3	4133123	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721272.3	4133123	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06

721297.3	4133123	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721322.3	4133123	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721347.3	4133123	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721372.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721397.3	4133123	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721422.3	4133123	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721447.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721472.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721497.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721522.3	4133123	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721547.3	4133123	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721572.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721597.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721622.3	4133123	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721122.3	4133148	UCART2	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
721147.3	4133148	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721172.3	4133148	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721197.3	4133148	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721222.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721247.3	4133148	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721272.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721297.3	4133148	UCART2	-4.42E-08	-1.00E-05	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721322.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721347.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721372.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721397.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721422.3	4133148	UCART2	-3.54E-08	-8.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721447.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721472.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721497.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721522.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721547.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721572.3	4133148	UCART2	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
721597.3	4133148	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721622.3	4133148	UCART2	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
718867.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719167.4	4132691	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719192.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132691	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719442.4	4132691	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132691	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132716	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719192.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132716	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719417.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132716	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132716	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719092.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132741	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719167.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132741	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719417.4	4132741	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132741	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132766	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132766	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132791	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132791	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719017.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132791	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719142.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132791	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132791	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132791	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719392.4	4132791	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132791	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132816	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719392.4	4132816	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132816	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

718942.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132841	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719117.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132841	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132841	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132866	UCART3	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719117.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132866	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132866	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

718867.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132891	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132891	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132916	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719417.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132916	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132941	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132941	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719342.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132966	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132966	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4132991	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4132991	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4132991	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4132991	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4132991	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719392.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4132991	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719267.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133016	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133016	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133041	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719117.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133041	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133041	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133066	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133066	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133066	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719192.4	4133066	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133066	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133066	UCART3	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
719417.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133066	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133091	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133091	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133091	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133091	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133091	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133116	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719117.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133116	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133116	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133116	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133116	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133116	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133141	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133141	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719142.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133141	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133141	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133141	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133141	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133166	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133166	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719042.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133166	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133166	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133166	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133191	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133191	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719167.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133191	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133191	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133191	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133191	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

718967.4	4133216	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133216	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719167.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133216	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133216	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133216	UCART3	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719467.4	4133216	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133241	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133241	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133241	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133241	UCART3	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719467.4	4133241	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

718892.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133266	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133266	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719192.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133266	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133266	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133266	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133291	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133291	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719192.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133291	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719442.4	4133291	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133291	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133316	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719217.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133316	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133316	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133316	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133341	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133341	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719217.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133341	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719367.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133341	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133341	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
718867.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133366	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133366	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719217.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133366	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133366	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133366	UCART3	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
718867.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133391	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133391	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719217.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133391	UCART3	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

719292.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133391	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718867.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718892.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718917.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718942.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718967.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
718992.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719017.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719042.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719067.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719092.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719117.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719142.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719167.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719192.4	4133416	UCART3	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
719217.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719242.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719267.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719292.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719317.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719342.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719367.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719392.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719417.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719442.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
719467.4	4133416	UCART3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720314.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131377	UCART4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720439.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720464.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720489.9	4131377	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131377	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131377	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131377	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131377	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131377	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

720664.9	4131377	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720689.9	4131377	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131377	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131377	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720439.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720464.9	4131403	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131403	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131403	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131403	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131403	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131403	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720639.9	4131403	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720664.9	4131403	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720689.9	4131403	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131403	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131403	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720439.9	4131429	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131429	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131429	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720614.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720639.9	4131429	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720664.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131429	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131429	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131454	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131454	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131454	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720489.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131454	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720614.9	4131454	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720639.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131454	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131454	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131480	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131480	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131480	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131480	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131480	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131480	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131480	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131480	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720589.9	4131480	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720614.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131480	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131480	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131480	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720314.9	4131506	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131506	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131506	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131506	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131506	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131506	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131506	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720564.9	4131506	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720589.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131506	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720314.9	4131532	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131532	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131532	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131532	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131532	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131532	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720539.9	4131532	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720564.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131532	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131558	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720539.9	4131558	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720564.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131558	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131558	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720714.9	4131558	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131558	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131584	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131584	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131584	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131584	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720514.9	4131584	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720539.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720589.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131584	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131584	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131610	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131610	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131610	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720489.9	4131610	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720514.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131610	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131610	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131636	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131636	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131636	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720464.9	4131636	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720489.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131636	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720664.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131636	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131636	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131636	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131662	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131662	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720414.9	4131662	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720439.9	4131662	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720464.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131662	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131662	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131662	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131662	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131688	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131688	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131688	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131688	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720439.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131688	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720639.9	4131688	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131688	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131688	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131688	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131688	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131714	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131714	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131714	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131714	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720414.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131714	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720614.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131714	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720689.9	4131714	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131714	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131714	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131740	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131740	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131740	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720389.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131740	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720589.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131740	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131740	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131740	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720714.9	4131740	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131740	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131766	UCART4	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131766	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720364.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131766	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720589.9	4131766	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131766	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131766	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131766	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720689.9	4131766	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720714.9	4131766	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131766	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131792	UCART4	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720339.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720514.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131792	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720564.9	4131792	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131792	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131792	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131792	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720689.9	4131792	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131792	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720739.9	4131792	UCART4	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131818	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720539.9	4131818	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131818	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131818	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720639.9	4131818	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720664.9	4131818	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720689.9	4131818	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131818	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131818	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131844	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720514.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131844	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131844	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131844	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720639.9	4131844	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720664.9	4131844	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131844	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720714.9	4131844	UCART4	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131844	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720314.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720339.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720464.9	4131870	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720489.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131870	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131870	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131870	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131870	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720614.9	4131870	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720639.9	4131870	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720664.9	4131870	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720689.9	4131870	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720714.9	4131870	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131870	UCART4	3.54E-08	8.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720314.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720339.9	4131895	UCART4	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720364.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720389.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720414.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720439.9	4131895	UCART4	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720464.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720489.9	4131895	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720514.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720539.9	4131895	UCART4	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720564.9	4131895	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720589.9	4131895	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720614.9	4131895	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720639.9	4131895	UCART4	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720664.9	4131895	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720689.9	4131895	UCART4	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720714.9	4131895	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720739.9	4131895	UCART4	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4130992	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4130992	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4130992	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720961.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720986.8	4130992	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721011.8	4130992	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4130992	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720761.8	4131017 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131017 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131017 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131017 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131017 UCART5	0.00E+00	0.00E+00	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131017 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131017 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4131017 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720961.8	4131017 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720986.8	4131017 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131017 UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131017 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131042 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131042 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131042 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131042 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4131042 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720961.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131042 UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131042 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131067 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131067 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131067 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131067 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131067 UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131067 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131067 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720761.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131092 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131092 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131092 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131092 UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131092 UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131092 UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00

721036.8	4131092	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720761.8	4131117	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131117	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131117	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131117	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131117	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131117	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131117	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131117	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131117	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131117	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721011.8	4131117	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721036.8	4131117	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131142	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131142	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131142	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131142	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131142	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131142	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131142	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131142	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131142	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720986.8	4131142	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721011.8	4131142	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131142	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131167	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131167	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131167	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131167	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131167	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131167	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131167	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131167	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131167	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720986.8	4131167	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131167	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131167	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131192	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131192	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131192	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131192	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131192	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131192	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131192	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131192	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720961.8	4131192	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720986.8	4131192	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721011.8	4131192	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131192	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131217	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131217	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131217	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131217	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131217	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131217	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131217	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4131217	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720961.8	4131217	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131217	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131217	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131217	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131242	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131242	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131242	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131242	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131242	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720936.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131242	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131242	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131267	UCART5	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131267	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131267	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131267	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720911.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131267	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131267	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131292	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131292	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131292	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720986.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131292	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131317	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131317	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720886.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131317	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131317	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131342	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131342	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720861.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131342	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131342	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131342	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131342	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131367	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131367	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131367	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720836.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131367	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131367	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131367	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131392	UCART5	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

720961.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131392	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721011.8	4131392	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131392	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131417	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720811.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131417	UCART5	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720911.8	4131417	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131417	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720986.8	4131417	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131417	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131417	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131442	UCART5	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
720786.8	4131442	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131442	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131442	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131442	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131442	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131442	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131442	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131442	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720986.8	4131442	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131442	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131442	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131467	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131467	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131467	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131467	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131467	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720886.8	4131467	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131467	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131467	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720961.8	4131467	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131467	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721011.8	4131467	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131467	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720761.8	4131492	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131492	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131492	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131492	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720861.8	4131492	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131492	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131492	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06

720936.8	4131492	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131492	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131492	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721011.8	4131492	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721036.8	4131492	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131517	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131517	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131517	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131517	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131517	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131517	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720911.8	4131517	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720936.8	4131517	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720961.8	4131517	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720986.8	4131517	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721011.8	4131517	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131517	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131542	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131542	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720811.8	4131542	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720836.8	4131542	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131542	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720886.8	4131542	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720911.8	4131542	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131542	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720961.8	4131542	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720986.8	4131542	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721011.8	4131542	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131542	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720761.8	4131567	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720786.8	4131567	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720811.8	4131567	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720836.8	4131567	UCART5	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720861.8	4131567	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720886.8	4131567	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720911.8	4131567	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720936.8	4131567	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
720961.8	4131567	UCART5	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
720986.8	4131567	UCART5	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721011.8	4131567	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721036.8	4131567	UCART5	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131064	UCART6	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721066.5	4131064	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721091.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131064	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131064	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721191.5	4131064	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721216.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131064	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721366.5	4131064	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721391.5	4131064	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131064	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131084	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721066.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131084	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131084	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131084	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721191.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131084	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131084	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721366.5	4131084	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131084	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131084	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721041.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131104	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131104	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721166.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131104	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131104	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131104	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131104	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131104	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721416.5	4131104	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721041.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131124	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721166.5	4131124	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131124	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131124	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131124	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131124	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131124	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721391.5	4131124	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721416.5	4131124	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131144	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131144	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131144	UCART6	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131144	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131144	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131144	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131144	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131144	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721366.5	4131144	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721391.5	4131144	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131144	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131164	UCART6	8.84E-09	2.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131164	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131164	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721116.5	4131164	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131164	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131164	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131164	UCART6	1.77E-08	4.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131164	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131164	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131164	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131164	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131164	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131164	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721366.5	4131164	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131164	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131164	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131184	UCART6	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721091.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721141.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131184	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131184	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131184	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131184	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131184	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131184	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131184	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131184	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131184	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131204	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131204	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131204	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131204	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131204	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131204	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131204	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131204	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131204	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131204	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131224	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131224	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721166.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131224	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131224	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131224	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131224	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131224	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131224	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131224	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131224	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131224	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131244	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131244	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131244	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721116.5	4131244	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721141.5	4131244	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131244	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131244	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131244	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131244	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721266.5	4131244	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131244	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131244	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721341.5	4131244	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131244	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131244	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131244	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131264	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131264	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131264	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721116.5	4131264	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131264	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131264	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131264	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131264	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721241.5	4131264	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131264	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131264	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721316.5	4131264	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131264	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131264	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131264	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131264	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721041.5	4131284	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131284	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131284	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131284	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131284	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131284	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721191.5	4131284	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131284	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131284	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131284	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721291.5	4131284	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131284	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131284	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131284	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131284	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721416.5	4131284	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721041.5	4131304	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131304	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06

721091.5	4131304	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131304	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131304	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721166.5	4131304	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131304	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721216.5	4131304	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131304	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131304	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131304	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131304	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131304	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131304	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721391.5	4131304	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721416.5	4131304	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721041.5	4131324	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721066.5	4131324	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131324	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721116.5	4131324	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721141.5	4131324	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721166.5	4131324	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721191.5	4131324	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131324	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131324	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131324	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131324	UCART6	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721316.5	4131324	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131324	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721366.5	4131324	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721391.5	4131324	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721416.5	4131324	UCART6	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721041.5	4131344	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721066.5	4131344	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131344	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721116.5	4131344	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721141.5	4131344	UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721166.5	4131344	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721191.5	4131344	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131344	UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131344	UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721266.5	4131344	UCART6	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721291.5	4131344	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721316.5	4131344	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721341.5	4131344	UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721366.5	4131344	UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721391.5	4131344	UCART6	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721416.5	4131344	UCART6	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721041.5	4131364	UCART6	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06

721066.5	4131364 UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721091.5	4131364 UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721116.5	4131364 UCART6	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721141.5	4131364 UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721166.5	4131364 UCART6	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721191.5	4131364 UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721216.5	4131364 UCART6	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721241.5	4131364 UCART6	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721266.5	4131364 UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721291.5	4131364 UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721316.5	4131364 UCART6	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721341.5	4131364 UCART6	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721366.5	4131364 UCART6	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721391.5	4131364 UCART6	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721416.5	4131364 UCART6	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721792.2	4132066	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721583.8	4131986	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721606.8	4131976	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721629.8	4131966	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721652.8	4131957	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721675.7	4131947	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721698.7	4131937	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721721.7	4131927	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721744.7	4131917	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721767.6	4131907	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721790.6	4131897	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721813.6	4131888	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721836.6	4131878	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721859.5	4131868	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721882.5	4131858	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721905.5	4131848	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721928.5	4131838	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721951.4	4131828	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721974.4	4131819	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721997.4	4131809	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722020.4	4131799	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722043.3	4131789	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722066.3	4131779	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722089.3	4131769	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722112.3	4131759	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722135.2	4131750	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722158.2	4131740	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722181.2	4131730	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722204.2	4131720	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722227.2	4131710	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722250.1	4131700	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722273.1	4131690	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06

722296.1	4131681	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722319.1	4131671	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722342	4131661	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722365	4131651	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722388	4131641	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722411	4131631	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722433.9	4131621	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722456.9	4131612	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722479.9	4131602	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722502.9	4131592	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722525.8	4131582	5.31E-08	1.20E-05	8.85E-09	2.00E-06	8.85E-09	2.00E-06
722548.8	4131572	5.31E-08	1.20E-05	8.85E-09	2.00E-06	8.85E-09	2.00E-06
722571.8	4131562	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722594.8	4131552	6.19E-08	1.40E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722617.7	4131543	6.19E-08	1.40E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722640.7	4131533	7.07E-08	1.60E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722663.7	4131523	7.07E-08	1.60E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722686.7	4131513	6.19E-08	1.40E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722709.6	4131503	6.19E-08	1.40E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722732.6	4131493	5.31E-08	1.20E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722755.6	4131483	5.31E-08	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722778.6	4131474	5.31E-08	1.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722801.5	4131464	3.54E-08	8.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722824.5	4131454	2.65E-08	6.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722847.5	4131444	2.65E-08	6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722870.5	4131434	8.84E-09	2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722893.4	4131424	8.84E-09	2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722916.4	4131414	0.00E+00	0.00E+00	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722939.4	4131405	-1.77E-08	-4.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722962.4	4131395	-1.77E-08	-4.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722985.3	4131385	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723008.3	4131375	-3.54E-08	-8.00E-06	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723031.3	4131365	-5.31E-08	-1.20E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723054.3	4131355	-6.19E-08	-1.40E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723077.2	4131345	-7.07E-08	-1.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723100.2	4131336	-7.96E-08	-1.80E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723123.2	4131326	-9.73E-08	-2.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723146.2	4131316	-1.06E-07	-2.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723169.1	4131306	-1.15E-07	-2.60E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723192.1	4131296	-1.33E-07	-3.00E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723267	4131370	-1.50E-07	-3.40E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723245.7	4131382	-1.24E-07	-2.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723222.7	4131392	-1.06E-07	-2.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723199.7	4131402	-8.84E-08	-2.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723176.7	4131412	-7.96E-08	-1.80E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723153.8	4131421	-7.96E-08	-1.80E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
723130.8	4131431	-6.19E-08	-1.40E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05

723107.8	4131441	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723084.8	4131451	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723061.9	4131461	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723038.9	4131471	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723015.9	4131481	-1.77E-08	-4.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722992.9	4131490	-1.77E-08	-4.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722970	4131500	-1.77E-08	-4.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722947	4131510	0.00E+00	0.00E+00	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722924	4131520	0.00E+00	0.00E+00	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722901	4131530	0.00E+00	0.00E+00	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722878.1	4131540	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722855.1	4131550	8.84E-09	2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722832.1	4131559	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722809.1	4131569	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722786.2	4131579	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722763.2	4131589	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722740.2	4131599	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722717.2	4131609	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722694.3	4131619	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722671.3	4131628	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722648.3	4131638	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722625.3	4131648	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722602.4	4131658	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722579.4	4131668	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722556.4	4131678	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722533.4	4131688	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722510.5	4131697	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722487.5	4131707	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722464.5	4131717	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722441.5	4131727	1.77E-08	4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722418.6	4131737	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722395.6	4131747	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722372.6	4131757	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722349.6	4131766	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722326.7	4131776	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722303.7	4131786	2.65E-08	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722280.7	4131796	2.65E-08	6.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722257.7	4131806	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722234.8	4131816	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722211.8	4131826	3.54E-08	8.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722188.8	4131835	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722165.8	4131845	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722142.8	4131855	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722119.9	4131865	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722096.9	4131875	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722073.9	4131885	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
722050.9	4131895	3.54E-08	8.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06

722028	4131904	3.54E-08	8.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
722005	4131914	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721982	4131924	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721959	4131934	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721936.1	4131944	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721913.1	4131954	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721890.1	4131964	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721867.1	4131973	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721844.2	4131983	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721821.2	4131993	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721798.2	4132003	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721775.2	4132013	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721752.3	4132023	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721729.3	4132033	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721706.3	4132042	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721683.3	4132052	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721660.4	4132062	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721637.4	4132072	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721841.2	4132145	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721864.2	4132135	8.84E-09	2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
721887.1	4132125	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721910.1	4132115	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721933.1	4132105	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721956.1	4132096	0.00E+00	0.00E+00	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721979.1	4132086	0.00E+00	0.00E+00	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
722002.1	4132076	0.00E+00	0.00E+00	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
722025.1	4132066	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722048	4132056	-8.85E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722071	4132046	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722094	4132037	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722117	4132027	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722140	4132017	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722163	4132007	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722186	4131997	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722208.9	4131987	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722231.9	4131978	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722254.9	4131968	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722277.9	4131958	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722300.9	4131948	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722323.9	4131938	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722346.9	4131928	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722369.8	4131919	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722392.8	4131909	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722415.8	4131899	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722438.8	4131889	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722461.8	4131879	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722484.8	4131869	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06

722507.8	4131860	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722530.7	4131850	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722553.7	4131840	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722576.7	4131830	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722599.7	4131820	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722622.7	4131810	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722645.7	4131801	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722668.7	4131791	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722691.6	4131781	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722714.6	4131771	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722737.6	4131761	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722760.6	4131751	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722783.6	4131742	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722806.6	4131732	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722829.6	4131722	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722852.5	4131712	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722875.5	4131702	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722898.5	4131692	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722921.5	4131683	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722944.5	4131673	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722967.5	4131663	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722990.5	4131653	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
723013.4	4131643	-4.42E-08	-1.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723036.4	4131633	-4.42E-08	-1.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723059.4	4131624	-4.42E-08	-1.00E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723082.4	4131614	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723105.4	4131604	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723128.4	4131594	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723151.4	4131584	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723174.3	4131574	-7.96E-08	-1.80E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723197.3	4131565	-7.96E-08	-1.80E-05	-8.84E-08	-2.00E-05	-8.84E-08	-2.00E-05
723220.3	4131555	-8.84E-08	-2.00E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723243.3	4131545	-9.73E-08	-2.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723266.3	4131535	-1.06E-07	-2.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723289.3	4131525	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723316.8	4131622	-1.41E-07	-3.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723293.8	4131632	-1.24E-07	-2.80E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723270.8	4131642	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723247.8	4131652	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723224.8	4131662	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723201.8	4131671	-8.84E-08	-2.00E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723178.8	4131681	-8.84E-08	-2.00E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723155.9	4131691	-7.96E-08	-1.80E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723132.9	4131701	-7.96E-08	-1.80E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723109.9	4131711	-7.96E-08	-1.80E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723086.9	4131721	-7.07E-08	-1.60E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723063.9	4131730	-7.07E-08	-1.60E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05

723040.9	4131740	-7.07E-08	-1.60E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723017.9	4131750	-7.07E-08	-1.60E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
722995	4131760	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722972	4131770	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722949	4131780	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722926	4131789	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722903	4131799	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722880	4131809	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722857	4131819	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722834.1	4131829	-6.19E-08	-1.40E-05	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
722811.1	4131839	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722788.1	4131848	-6.19E-08	-1.40E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722765.1	4131858	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722742.1	4131868	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722719.1	4131878	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722696.1	4131888	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722673.2	4131898	-5.31E-08	-1.20E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722650.2	4131907	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722627.2	4131917	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722604.2	4131927	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722581.2	4131937	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
722558.2	4131947	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722535.2	4131957	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722512.3	4131966	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722489.3	4131976	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722466.3	4131986	-4.42E-08	-1.00E-05	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722443.3	4131996	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722420.3	4132006	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722397.3	4132016	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722374.3	4132025	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722351.4	4132035	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722328.4	4132045	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722305.4	4132055	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722282.4	4132065	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722259.4	4132075	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722236.4	4132084	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722213.4	4132094	-3.54E-08	-8.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722190.5	4132104	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722167.5	4132114	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722144.5	4132124	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722121.5	4132134	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722098.5	4132143	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722075.5	4132153	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722052.5	4132163	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722029.6	4132173	-2.65E-08	-6.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722006.6	4132183	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721983.6	4132193	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06

721960.6	4132202	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721937.6	4132212	-1.77E-08	-4.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721914.6	4132222	-8.84E-09	-2.00E-06	-8.85E-09	-2.00E-06	-8.85E-09	-2.00E-06
721891.6	4132232	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
721853.4	4132064	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721876.4	4132054	2.65E-08	6.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721899.3	4132045	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721922.3	4132035	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721945.3	4132025	8.84E-09	2.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721968.3	4132015	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721991.3	4132005	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722014.3	4131995	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722037.2	4131986	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722060.2	4131976	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722083.2	4131966	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722106.2	4131956	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722129.2	4131946	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722152.2	4131936	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722175.1	4131927	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722198.1	4131917	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722221.1	4131907	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722244.1	4131897	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722267.1	4131887	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722290.1	4131877	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722313	4131868	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722336	4131858	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722359	4131848	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722382	4131838	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722405	4131828	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722428	4131818	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722450.9	4131809	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722473.9	4131799	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722496.9	4131789	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722519.9	4131779	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722542.9	4131769	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722565.9	4131759	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722588.8	4131749	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722611.8	4131740	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722634.8	4131730	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722657.8	4131720	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722680.8	4131710	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722703.8	4131700	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722726.7	4131690	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722749.7	4131681	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722772.7	4131671	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722795.7	4131661	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722818.7	4131651	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06

722841.7	4131641	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722864.6	4131631	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722887.6	4131622	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722910.6	4131612	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722933.6	4131602	-1.77E-08	-4.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722956.6	4131592	-1.77E-08	-4.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722979.6	4131582	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
723002.5	4131572	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
723025.5	4131563	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
723048.5	4131553	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723071.5	4131543	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723094.5	4131533	-4.42E-08	-1.00E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723117.4	4131523	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723140.4	4131513	-6.19E-08	-1.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723163.4	4131504	-6.19E-08	-1.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723186.4	4131494	-7.07E-08	-1.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723209.4	4131484	-8.84E-08	-2.00E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723232.4	4131474	-9.73E-08	-2.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723255.3	4131464	-1.06E-07	-2.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723278.3	4131454	-1.24E-07	-2.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723261	4131464	-1.15E-07	-2.60E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723238	4131474	-9.73E-08	-2.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723215	4131484	-8.84E-08	-2.00E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723192	4131493	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723169.1	4131503	-7.07E-08	-1.60E-05	-7.96E-08	-1.80E-05	-7.96E-08	-1.80E-05
723146.1	4131513	-6.19E-08	-1.40E-05	-7.07E-08	-1.60E-05	-7.07E-08	-1.60E-05
723123.1	4131523	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723100.1	4131533	-5.31E-08	-1.20E-05	-6.19E-08	-1.40E-05	-6.19E-08	-1.40E-05
723077.1	4131543	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723054.2	4131552	-3.54E-08	-8.00E-06	-5.31E-08	-1.20E-05	-5.31E-08	-1.20E-05
723031.2	4131562	-3.54E-08	-8.00E-06	-4.42E-08	-1.00E-05	-4.42E-08	-1.00E-05
723008.2	4131572	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722985.2	4131582	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722962.2	4131592	-2.65E-08	-6.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722939.2	4131602	-1.77E-08	-4.00E-06	-3.54E-08	-8.00E-06	-3.54E-08	-8.00E-06
722916.3	4131612	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722893.3	4131621	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722870.3	4131631	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722847.3	4131641	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722824.3	4131651	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722801.3	4131661	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722778.4	4131671	-8.84E-09	-2.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722755.4	4131680	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722732.4	4131690	-1.77E-08	-4.00E-06	-2.65E-08	-6.00E-06	-2.65E-08	-6.00E-06
722709.4	4131700	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722686.4	4131710	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722663.4	4131720	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06

722640.5	4131730	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722617.5	4131739	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722594.5	4131749	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722571.5	4131759	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722548.5	4131769	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722525.5	4131779	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722502.6	4131789	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722479.6	4131798	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722456.6	4131808	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722433.6	4131818	0.00E+00	0.00E+00	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722410.6	4131828	-8.84E-09	-2.00E-06	-1.77E-08	-4.00E-06	-1.77E-08	-4.00E-06
722387.6	4131838	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722364.7	4131848	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722341.7	4131857	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722318.7	4131867	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722295.7	4131877	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722272.7	4131887	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722249.7	4131897	0.00E+00	0.00E+00	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
722226.8	4131907	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722203.8	4131916	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722180.8	4131926	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722157.8	4131936	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722134.8	4131946	8.84E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722111.8	4131956	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722088.9	4131966	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722065.9	4131976	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722042.9	4131985	8.85E-09	2.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
722019.9	4131995	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721996.9	4132005	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721973.9	4132015	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721951	4132025	8.84E-09	2.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721928	4132035	1.77E-08	4.00E-06	8.85E-09	2.00E-06	8.85E-09	2.00E-06
721905	4132044	1.77E-08	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00
721882	4132054	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
721859	4132064	1.77E-08	4.00E-06	8.84E-09	2.00E-06	8.84E-09	2.00E-06
722093.9	4131295	1.41E-07	3.20E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722116.8	4131285	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722139.7	4131275	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722162.7	4131266	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722185.6	4131256	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722208.6	4131246	1.33E-07	3.00E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722231.5	4131236	1.50E-07	3.40E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722254.5	4131226	1.68E-07	3.80E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722277.4	4131216	2.03E-07	4.60E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
722300.3	4131206	2.56E-07	5.80E-05	1.50E-07	3.40E-05	1.50E-07	3.40E-05
722323.3	4131196	3.27E-07	7.40E-05	1.95E-07	4.40E-05	1.95E-07	4.40E-05
722346.2	4131186	3.98E-07	9.00E-05	2.39E-07	5.40E-05	2.39E-07	5.40E-05

722369.2	4131176	4.60E-07	1.04E-04	2.74E-07	6.20E-05	2.74E-07	6.20E-05
722392.1	4131166	5.04E-07	1.14E-04	3.01E-07	6.80E-05	3.01E-07	6.80E-05
722415.1	4131156	5.13E-07	1.16E-04	3.09E-07	7.00E-05	3.09E-07	7.00E-05
722438	4131146	5.04E-07	1.14E-04	3.09E-07	7.00E-05	3.01E-07	6.80E-05
722460.9	4131136	4.86E-07	1.10E-04	2.92E-07	6.60E-05	2.92E-07	6.60E-05
722483.9	4131126	4.51E-07	1.02E-04	2.74E-07	6.20E-05	2.74E-07	6.20E-05
722506.8	4131117	4.16E-07	9.40E-05	2.48E-07	5.60E-05	2.48E-07	5.60E-05
722529.8	4131107	3.80E-07	8.60E-05	2.30E-07	5.20E-05	2.30E-07	5.20E-05
722552.7	4131097	3.54E-07	8.00E-05	2.03E-07	4.60E-05	2.03E-07	4.60E-05
722575.7	4131087	3.18E-07	7.20E-05	1.86E-07	4.20E-05	1.86E-07	4.20E-05
722598.6	4131077	2.92E-07	6.60E-05	1.68E-07	3.80E-05	1.68E-07	3.80E-05
722621.5	4131067	2.65E-07	6.00E-05	1.50E-07	3.40E-05	1.50E-07	3.40E-05
722644.5	4131057	2.39E-07	5.40E-05	1.41E-07	3.20E-05	1.41E-07	3.20E-05
722667.4	4131047	2.21E-07	5.00E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
722690.4	4131037	2.03E-07	4.60E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
722713.3	4131027	1.86E-07	4.20E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
722736.3	4131017	1.68E-07	3.80E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722759.2	4131007	1.50E-07	3.40E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722771.1	4131057	1.50E-07	3.40E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722748.2	4131067	1.59E-07	3.60E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722725.2	4131076	1.86E-07	4.20E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
722702.3	4131086	1.95E-07	4.40E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05
722679.4	4131096	2.12E-07	4.80E-05	1.15E-07	2.60E-05	1.15E-07	2.60E-05
722656.4	4131106	2.39E-07	5.40E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
722633.5	4131116	2.56E-07	5.80E-05	1.41E-07	3.20E-05	1.41E-07	3.20E-05
722610.5	4131126	2.83E-07	6.40E-05	1.59E-07	3.60E-05	1.59E-07	3.60E-05
722587.6	4131136	3.09E-07	7.00E-05	1.77E-07	4.00E-05	1.77E-07	4.00E-05
722564.6	4131146	3.54E-07	8.00E-05	1.95E-07	4.40E-05	1.95E-07	4.40E-05
722541.7	4131156	3.89E-07	8.80E-05	2.30E-07	5.20E-05	2.30E-07	5.20E-05
722518.8	4131166	4.42E-07	1.00E-04	2.65E-07	6.00E-05	2.65E-07	6.00E-05
722495.8	4131176	5.04E-07	1.14E-04	3.01E-07	6.80E-05	3.01E-07	6.80E-05
722472.9	4131186	5.66E-07	1.28E-04	3.45E-07	7.80E-05	3.45E-07	7.80E-05
722449.9	4131196	6.46E-07	1.46E-04	3.89E-07	8.80E-05	3.89E-07	8.80E-05
722427	4131206	7.16E-07	1.62E-04	4.42E-07	1.00E-04	4.42E-07	1.00E-04
722404	4131216	7.87E-07	1.78E-04	4.78E-07	1.08E-04	4.78E-07	1.08E-04
722381.1	4131225	8.05E-07	1.82E-04	4.95E-07	1.12E-04	4.95E-07	1.12E-04
722358.2	4131235	7.60E-07	1.72E-04	4.69E-07	1.06E-04	4.69E-07	1.06E-04
722335.2	4131245	6.37E-07	1.44E-04	3.89E-07	8.80E-05	3.89E-07	8.80E-05
722312.3	4131255	4.60E-07	1.04E-04	2.74E-07	6.20E-05	2.74E-07	6.20E-05
722289.3	4131265	3.01E-07	6.80E-05	1.77E-07	4.00E-05	1.77E-07	4.00E-05
722266.4	4131275	2.12E-07	4.80E-05	1.24E-07	2.80E-05	1.24E-07	2.80E-05
722243.4	4131285	1.77E-07	4.00E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
722220.5	4131295	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722197.6	4131305	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722174.6	4131315	1.68E-07	3.80E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722151.7	4131325	1.77E-07	4.00E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
722128.7	4131335	1.95E-07	4.40E-05	1.06E-07	2.40E-05	1.06E-07	2.40E-05

722148.9	4131035	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722171.9	4131025	6.19E-08	1.40E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722194.9	4131015	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722218	4131005	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722241	4130996	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722264	4130986	8.84E-08	2.00E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722287	4130976	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
722310	4130966	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
722333.1	4130957	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
722356.1	4130947	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722379.1	4130937	1.24E-07	2.80E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722402.1	4130927	1.33E-07	3.00E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722418	4130975	1.68E-07	3.80E-05	9.73E-08	2.20E-05	9.73E-08	2.20E-05
722395	4130985	1.59E-07	3.60E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722372	4130994	1.50E-07	3.40E-05	8.84E-08	2.00E-05	8.84E-08	2.00E-05
722348.9	4131004	1.41E-07	3.20E-05	7.96E-08	1.80E-05	7.96E-08	1.80E-05
722325.9	4131014	1.33E-07	3.00E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722302.9	4131024	1.15E-07	2.60E-05	7.07E-08	1.60E-05	7.07E-08	1.60E-05
722279.9	4131033	1.06E-07	2.40E-05	6.19E-08	1.40E-05	6.19E-08	1.40E-05
722256.8	4131043	9.73E-08	2.20E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
722233.8	4131053	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
722210.8	4131063	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722187.8	4131072	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
721461.3	4131277	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721484.2	4131267	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721507.1	4131257	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721530.1	4131247	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721553	4131237	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721575.9	4131227	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721598.8	4131217	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721621.7	4131207	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721644.7	4131197	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721667.6	4131187	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721690.5	4131177	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721713.4	4131167	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721736.3	4131157	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721759.2	4131147	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721782.2	4131137	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721805.1	4131127	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721828	4131117	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721850.9	4131107	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721873.8	4131097	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721896.8	4131087	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721903.6	4131128	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721880.7	4131138	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721857.8	4131148	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721834.9	4131158	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06

721812	4131168	7.07E-08	1.60E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721789	4131178	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721766.1	4131188	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721743.2	4131198	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721720.3	4131207	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721697.4	4131217	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721674.4	4131227	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721651.5	4131237	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721628.6	4131247	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721605.7	4131257	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721582.8	4131267	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721559.8	4131277	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721536.9	4131287	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721514	4131297	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721491.1	4131307	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721412.4	4131178	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721435.4	4131168	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721458.3	4131158	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721481.3	4131149	2.65E-08	6.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721504.2	4131139	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721527.2	4131129	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721550.1	4131119	3.54E-08	8.00E-06	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721573.1	4131109	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721596	4131099	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721619	4131089	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721641.9	4131079	3.54E-08	8.00E-06	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721664.9	4131069	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721687.8	4131059	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721710.8	4131049	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721733.7	4131040	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721756.7	4131030	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721779.6	4131020	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721802.6	4131010	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721825.5	4131000	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721848.5	4130990	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721871.4	4130980	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721894.4	4130970	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721917.3	4130960	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721940.3	4130950	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721963.2	4130940	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721986.2	4130930	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722009.1	4130921	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722032.1	4130911	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722055	4130901	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722078	4130891	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722100.9	4130881	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722123.9	4130871	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06

722146.8	4130861	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722169.8	4130851	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722192.7	4130841	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722215.7	4130831	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722238.6	4130821	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722261.6	4130812	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722284.5	4130802	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722307.5	4130792	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722330.4	4130782	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722374	4130839	8.84E-08	2.00E-05	5.31E-08	1.20E-05	5.31E-08	1.20E-05
722351.1	4130849	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722328.1	4130859	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722305.2	4130869	7.96E-08	1.80E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722282.2	4130879	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722259.3	4130889	7.07E-08	1.60E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722236.3	4130899	6.19E-08	1.40E-05	4.42E-08	1.00E-05	4.42E-08	1.00E-05
722213.4	4130909	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722190.4	4130919	6.19E-08	1.40E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722167.5	4130928	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722144.5	4130938	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722121.6	4130948	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722098.6	4130958	6.19E-08	1.40E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722075.7	4130968	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722052.7	4130978	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
722029.8	4130988	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
722006.8	4130998	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721983.9	4131008	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721960.9	4131018	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721938	4131028	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721915	4131037	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721892.1	4131047	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721869.1	4131057	5.31E-08	1.20E-05	3.54E-08	8.00E-06	3.54E-08	8.00E-06
721846.2	4131067	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721823.2	4131077	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721800.3	4131087	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721777.3	4131097	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721754.4	4131107	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721731.4	4131117	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721708.5	4131127	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721685.5	4131137	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721662.6	4131147	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721639.6	4131156	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721616.7	4131166	4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721593.7	4131176	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721570.8	4131186	5.31E-08	1.20E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721547.8	4131196	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721524.9	4131206	4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06

721501.9	4131216		4.42E-08	1.00E-05	1.77E-08	4.00E-06	1.77E-08	4.00E-06
721479	4131226		4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721456	4131236		4.42E-08	1.00E-05	2.65E-08	6.00E-06	2.65E-08	6.00E-06
721024.6	4133243		-1.77E-08	-4.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
720598.4	4133479		-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06	-8.84E-09	-2.00E-06
723107.4	4131882	MrcdStat	-1.15E-07	-2.60E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723130.4	4131872	MrcdStat	-1.24E-07	-2.80E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723153.5	4131862	MrcdStat	-1.24E-07	-2.80E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723176.5	4131853	MrcdStat	-1.24E-07	-2.80E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723199.6	4131843	MrcdStat	-1.33E-07	-3.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723222.7	4131833	MrcdStat	-1.33E-07	-3.00E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723245.7	4131824	MrcdStat	-1.33E-07	-3.00E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723268.8	4131814	MrcdStat	-1.41E-07	-3.20E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723291.8	4131804	MrcdStat	-1.41E-07	-3.20E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723314.9	4131795	MrcdStat	-1.50E-07	-3.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723338	4131785	MrcdStat	-1.59E-07	-3.60E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723361	4131775	MrcdStat	-1.68E-07	-3.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723384.1	4131766	MrcdStat	-1.77E-07	-4.00E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723407.1	4131756	MrcdStat	-1.95E-07	-4.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723430.2	4131746	MrcdStat	-2.12E-07	-4.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723453.3	4131737	MrcdStat	-2.39E-07	-5.40E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723476.3	4131727	MrcdStat	-2.74E-07	-6.20E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723499.4	4131717	MrcdStat	-3.36E-07	-7.60E-05	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723522.4	4131708	MrcdStat	-4.42E-07	-1.00E-04	-4.16E-07	-9.40E-05	-4.16E-07	-9.40E-05
723545.5	4131698	MrcdStat	-7.43E-07	-1.68E-04	-7.16E-07	-1.62E-04	-7.16E-07	-1.62E-04
723568.6	4131688	MrcdStat	-8.75E-07	-1.98E-04	-8.40E-07	-1.90E-04	-8.40E-07	-1.90E-04
723591.6	4131679	MrcdStat	-6.81E-07	-1.54E-04	-6.37E-07	-1.44E-04	-6.37E-07	-1.44E-04
723614.7	4131669	MrcdStat	-5.66E-07	-1.28E-04	-5.13E-07	-1.16E-04	-5.13E-07	-1.16E-04
723637.7	4131659	MrcdStat	-4.95E-07	-1.12E-04	-4.42E-07	-1.00E-04	-4.42E-07	-1.00E-04
723660.8	4131650	MrcdStat	-4.60E-07	-1.04E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723683.9	4131640	MrcdStat	-4.33E-07	-9.80E-05	-3.71E-07	-8.40E-05	-3.71E-07	-8.40E-05
723706.9	4131631	MrcdStat	-4.33E-07	-9.80E-05	-3.54E-07	-8.00E-05	-3.54E-07	-8.00E-05
723730	4131621	MrcdStat	-4.16E-07	-9.40E-05	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723753	4131611	MrcdStat	-4.07E-07	-9.20E-05	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723776.1	4131602	MrcdStat	-3.98E-07	-9.00E-05	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723799.2	4131592	MrcdStat	-3.89E-07	-8.80E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723822.2	4131582	MrcdStat	-3.80E-07	-8.60E-05	-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723845.3	4131573	MrcdStat	-3.63E-07	-8.20E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723868.3	4131563	MrcdStat	-3.45E-07	-7.80E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723891.4	4131553	MrcdStat	-3.36E-07	-7.60E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723117	4131905	MrcdStat	-1.24E-07	-2.80E-05	-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723140.1	4131895	MrcdStat	-1.41E-07	-3.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723163.1	4131885	MrcdStat	-1.41E-07	-3.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723186.2	4131876	MrcdStat	-1.41E-07	-3.20E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723209.2	4131866	MrcdStat	-1.50E-07	-3.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723232.3	4131856	MrcdStat	-1.50E-07	-3.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723255.4	4131847	MrcdStat	-1.50E-07	-3.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05

723278.4	4131837	MrcdStat	-1.59E-07	-3.60E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723301.5	4131827	MrcdStat	-1.59E-07	-3.60E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723324.5	4131818	MrcdStat	-1.68E-07	-3.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723347.6	4131808	MrcdStat	-1.77E-07	-4.00E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723370.7	4131798	MrcdStat	-1.86E-07	-4.20E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723393.7	4131789	MrcdStat	-1.86E-07	-4.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723416.8	4131779	MrcdStat	-2.03E-07	-4.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723439.8	4131769	MrcdStat	-2.21E-07	-5.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723462.9	4131760	MrcdStat	-2.48E-07	-5.60E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723486	4131750	MrcdStat	-2.83E-07	-6.40E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723509	4131740	MrcdStat	-3.54E-07	-8.00E-05	-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723532.1	4131731	MrcdStat	-4.60E-07	-1.04E-04	-4.24E-07	-9.60E-05	-4.24E-07	-9.60E-05
723555.1	4131721	MrcdStat	-7.34E-07	-1.66E-04	-7.07E-07	-1.60E-04	-7.07E-07	-1.60E-04
723578.2	4131711	MrcdStat	-9.29E-07	-2.10E-04	-8.93E-07	-2.02E-04	-8.93E-07	-2.02E-04
723601.3	4131702	MrcdStat	-6.99E-07	-1.58E-04	-6.46E-07	-1.46E-04	-6.46E-07	-1.46E-04
723624.3	4131692	MrcdStat	-5.92E-07	-1.34E-04	-5.31E-07	-1.20E-04	-5.31E-07	-1.20E-04
723647.4	4131683	MrcdStat	-5.31E-07	-1.20E-04	-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723670.4	4131673	MrcdStat	-4.95E-07	-1.12E-04	-4.33E-07	-9.80E-05	-4.33E-07	-9.80E-05
723693.5	4131663	MrcdStat	-4.86E-07	-1.10E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723716.6	4131654	MrcdStat	-4.78E-07	-1.08E-04	-3.80E-07	-8.60E-05	-3.80E-07	-8.60E-05
723739.6	4131644	MrcdStat	-4.69E-07	-1.06E-04	-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723762.7	4131634	MrcdStat	-4.51E-07	-1.02E-04	-3.54E-07	-8.00E-05	-3.54E-07	-8.00E-05
723785.8	4131625	MrcdStat	-4.42E-07	-1.00E-04	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723808.8	4131615	MrcdStat	-4.24E-07	-9.60E-05	-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723831.9	4131605	MrcdStat	-4.07E-07	-9.20E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723854.9	4131596	MrcdStat	-3.89E-07	-8.80E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723878	4131586	MrcdStat	-3.63E-07	-8.20E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723901.1	4131576	MrcdStat	-3.54E-07	-8.00E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723126.7	4131928	MrcdStat	-1.50E-07	-3.40E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723149.7	4131918	MrcdStat	-1.50E-07	-3.40E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723172.8	4131908	MrcdStat	-1.50E-07	-3.40E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723195.8	4131899	MrcdStat	-1.59E-07	-3.60E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723218.9	4131889	MrcdStat	-1.59E-07	-3.60E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723242	4131879	MrcdStat	-1.59E-07	-3.60E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723265	4131870	MrcdStat	-1.68E-07	-3.80E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723288.1	4131860	MrcdStat	-1.68E-07	-3.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723311.1	4131850	MrcdStat	-1.68E-07	-3.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723334.2	4131841	MrcdStat	-1.77E-07	-4.00E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723357.3	4131831	MrcdStat	-1.86E-07	-4.20E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723380.3	4131821	MrcdStat	-1.95E-07	-4.40E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723403.4	4131812	MrcdStat	-2.03E-07	-4.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723426.4	4131802	MrcdStat	-2.12E-07	-4.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723449.5	4131792	MrcdStat	-2.30E-07	-5.20E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723472.6	4131783	MrcdStat	-2.56E-07	-5.80E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723495.6	4131773	MrcdStat	-3.01E-07	-6.80E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723518.7	4131764	MrcdStat	-3.63E-07	-8.20E-05	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723541.7	4131754	MrcdStat	-4.69E-07	-1.06E-04	-4.24E-07	-9.60E-05	-4.24E-07	-9.60E-05

723564.8	4131744	MrcdStat	-7.69E-07	-1.74E-04		-7.25E-07	-1.64E-04	-7.25E-07	-1.64E-04
723587.9	4131735	MrcdStat	-8.93E-07	-2.02E-04		-8.49E-07	-1.92E-04	-8.49E-07	-1.92E-04
723610.9	4131725	MrcdStat	-7.34E-07	-1.66E-04		-6.72E-07	-1.52E-04	-6.72E-07	-1.52E-04
723634	4131715	MrcdStat	-6.37E-07	-1.44E-04		-5.57E-07	-1.26E-04	-5.57E-07	-1.26E-04
723657	4131706	MrcdStat	-5.75E-07	-1.30E-04		-5.04E-07	-1.14E-04	-5.04E-07	-1.14E-04
723680.1	4131696	MrcdStat	-5.48E-07	-1.24E-04		-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723703.2	4131686	MrcdStat	-5.39E-07	-1.22E-04		-4.33E-07	-9.80E-05	-4.33E-07	-9.80E-05
723726.2	4131677	MrcdStat	-5.31E-07	-1.20E-04		-4.16E-07	-9.40E-05	-4.16E-07	-9.40E-05
723749.3	4131667	MrcdStat	-5.22E-07	-1.18E-04		-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723772.3	4131657	MrcdStat	-5.04E-07	-1.14E-04		-3.80E-07	-8.60E-05	-3.80E-07	-8.60E-05
723795.4	4131648	MrcdStat	-4.86E-07	-1.10E-04		-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723818.5	4131638	MrcdStat	-4.60E-07	-1.04E-04		-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723841.5	4131628	MrcdStat	-4.33E-07	-9.80E-05		-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723864.6	4131619	MrcdStat	-4.07E-07	-9.20E-05		-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723887.6	4131609	MrcdStat	-3.89E-07	-8.80E-05		-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723910.7	4131599	MrcdStat	-3.54E-07	-8.00E-05		-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723136.3	4131951	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723159.4	4131941	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723182.4	4131931	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723205.5	4131922	MrcdStat	-1.68E-07	-3.80E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723228.6	4131912	MrcdStat	-1.68E-07	-3.80E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723251.6	4131902	MrcdStat	-1.77E-07	-4.00E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723274.7	4131893	MrcdStat	-1.77E-07	-4.00E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723297.7	4131883	MrcdStat	-1.86E-07	-4.20E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723320.8	4131873	MrcdStat	-1.86E-07	-4.20E-05		-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723343.9	4131864	MrcdStat	-1.95E-07	-4.40E-05		-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723366.9	4131854	MrcdStat	-1.95E-07	-4.40E-05		-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723390	4131845	MrcdStat	-2.03E-07	-4.60E-05		-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723413	4131835	MrcdStat	-2.12E-07	-4.80E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723436.1	4131825	MrcdStat	-2.30E-07	-5.20E-05		-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723459.2	4131816	MrcdStat	-2.39E-07	-5.40E-05		-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723482.2	4131806	MrcdStat	-2.74E-07	-6.20E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723505.3	4131796	MrcdStat	-3.09E-07	-7.00E-05		-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723528.3	4131787	MrcdStat	-3.71E-07	-8.40E-05		-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723551.4	4131777	MrcdStat	-4.77E-07	-1.08E-04		-4.33E-07	-9.80E-05	-4.33E-07	-9.80E-05
723574.5	4131767	MrcdStat	-7.69E-07	-1.74E-04		-7.16E-07	-1.62E-04	-7.16E-07	-1.62E-04
723597.5	4131758	MrcdStat	-9.82E-07	-2.22E-04		-9.20E-07	-2.08E-04	-9.20E-07	-2.08E-04
723620.6	4131748	MrcdStat	-7.69E-07	-1.74E-04		-6.99E-07	-1.58E-04	-6.99E-07	-1.58E-04
723643.6	4131738	MrcdStat	-6.81E-07	-1.54E-04		-5.92E-07	-1.34E-04	-5.92E-07	-1.34E-04
723666.7	4131729	MrcdStat	-6.37E-07	-1.44E-04		-5.39E-07	-1.22E-04	-5.39E-07	-1.22E-04
723689.8	4131719	MrcdStat	-6.28E-07	-1.42E-04		-5.04E-07	-1.14E-04	-5.04E-07	-1.14E-04
723712.8	4131709	MrcdStat	-6.19E-07	-1.40E-04		-4.86E-07	-1.10E-04	-4.86E-07	-1.10E-04
723735.9	4131700	MrcdStat	-6.01E-07	-1.36E-04		-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723758.9	4131690	MrcdStat	-5.84E-07	-1.32E-04		-4.42E-07	-1.00E-04	-4.42E-07	-1.00E-04
723782	4131680	MrcdStat	-5.57E-07	-1.26E-04		-4.16E-07	-9.40E-05	-4.16E-07	-9.40E-05
723805.1	4131671	MrcdStat	-5.22E-07	-1.18E-04		-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723828.1	4131661	MrcdStat	-4.86E-07	-1.10E-04		-3.54E-07	-8.00E-05	-3.54E-07	-8.00E-05

723851.2	4131651	MrcdStat	-4.51E-07	-1.02E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723874.2	4131642	MrcdStat	-4.24E-07	-9.60E-05	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723897.3	4131632	MrcdStat	-3.89E-07	-8.80E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723920.4	4131622	MrcdStat	-3.54E-07	-8.00E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723146	4131974	MrcdStat	-1.77E-07	-4.00E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723169	4131964	MrcdStat	-1.77E-07	-4.00E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723192.1	4131954	MrcdStat	-1.77E-07	-4.00E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723215.2	4131945	MrcdStat	-1.86E-07	-4.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723238.2	4131935	MrcdStat	-1.86E-07	-4.20E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723261.3	4131926	MrcdStat	-1.95E-07	-4.40E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723284.3	4131916	MrcdStat	-1.95E-07	-4.40E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723307.4	4131906	MrcdStat	-1.95E-07	-4.40E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723330.5	4131897	MrcdStat	-2.03E-07	-4.60E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723353.5	4131887	MrcdStat	-2.03E-07	-4.60E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723376.6	4131877	MrcdStat	-2.12E-07	-4.80E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723399.6	4131868	MrcdStat	-2.21E-07	-5.00E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723422.7	4131858	MrcdStat	-2.30E-07	-5.20E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723445.8	4131848	MrcdStat	-2.39E-07	-5.40E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723468.8	4131839	MrcdStat	-2.56E-07	-5.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723491.9	4131829	MrcdStat	-2.83E-07	-6.40E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723514.9	4131819	MrcdStat	-3.18E-07	-7.20E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723538	4131810	MrcdStat	-3.80E-07	-8.60E-05	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723561.1	4131800	MrcdStat	-4.95E-07	-1.12E-04	-4.42E-07	-1.00E-04	-4.42E-07	-1.00E-04
723584.1	4131790	MrcdStat	-7.96E-07	-1.80E-04	-7.34E-07	-1.66E-04	-7.34E-07	-1.66E-04
723607.2	4131781	MrcdStat	-1.02E-06	-2.30E-04	-9.46E-07	-2.14E-04	-9.46E-07	-2.14E-04
723630.2	4131771	MrcdStat	-8.31E-07	-1.88E-04	-7.34E-07	-1.66E-04	-7.34E-07	-1.66E-04
723653.3	4131761	MrcdStat	-7.60E-07	-1.72E-04	-6.46E-07	-1.46E-04	-6.46E-07	-1.46E-04
723676.4	4131752	MrcdStat	-7.43E-07	-1.68E-04	-6.01E-07	-1.36E-04	-6.01E-07	-1.36E-04
723699.4	4131742	MrcdStat	-7.25E-07	-1.64E-04	-5.66E-07	-1.28E-04	-5.66E-07	-1.28E-04
723722.5	4131732	MrcdStat	-7.07E-07	-1.60E-04	-5.39E-07	-1.22E-04	-5.39E-07	-1.22E-04
723745.5	4131723	MrcdStat	-6.81E-07	-1.54E-04	-5.13E-07	-1.16E-04	-5.13E-07	-1.16E-04
723768.6	4131713	MrcdStat	-6.46E-07	-1.46E-04	-4.77E-07	-1.08E-04	-4.77E-07	-1.08E-04
723791.7	4131703	MrcdStat	-6.01E-07	-1.36E-04	-4.42E-07	-1.00E-04	-4.42E-07	-1.00E-04
723814.7	4131694	MrcdStat	-5.57E-07	-1.26E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723837.8	4131684	MrcdStat	-5.04E-07	-1.14E-04	-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723860.8	4131674	MrcdStat	-4.69E-07	-1.06E-04	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723883.9	4131665	MrcdStat	-4.24E-07	-9.60E-05	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723907	4131655	MrcdStat	-3.80E-07	-8.60E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723930	4131645	MrcdStat	-3.45E-07	-7.80E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723155.6	4131997	MrcdStat	-1.86E-07	-4.20E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723178.7	4131987	MrcdStat	-1.95E-07	-4.40E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723201.8	4131978	MrcdStat	-1.95E-07	-4.40E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723224.8	4131968	MrcdStat	-2.03E-07	-4.60E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723247.9	4131958	MrcdStat	-2.03E-07	-4.60E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723270.9	4131949	MrcdStat	-2.12E-07	-4.80E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723294	4131939	MrcdStat	-2.12E-07	-4.80E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723317.1	4131929	MrcdStat	-2.21E-07	-5.00E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05

723340.1	4131920	MrcdStat	-2.21E-07	-5.00E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723363.2	4131910	MrcdStat	-2.30E-07	-5.20E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723386.2	4131900	MrcdStat	-2.30E-07	-5.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723409.3	4131891	MrcdStat	-2.39E-07	-5.40E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723432.4	4131881	MrcdStat	-2.48E-07	-5.60E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723455.4	4131871	MrcdStat	-2.56E-07	-5.80E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723478.5	4131862	MrcdStat	-2.74E-07	-6.20E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723501.5	4131852	MrcdStat	-2.92E-07	-6.60E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723524.6	4131842	MrcdStat	-3.36E-07	-7.60E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723547.7	4131833	MrcdStat	-3.98E-07	-9.00E-05	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723570.7	4131823	MrcdStat	-5.13E-07	-1.16E-04	-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723593.8	4131813	MrcdStat	-8.40E-07	-1.90E-04	-7.69E-07	-1.74E-04	-7.69E-07	-1.74E-04
723616.8	4131804	MrcdStat	-1.04E-06	-2.36E-04	-9.46E-07	-2.14E-04	-9.46E-07	-2.14E-04
723639.9	4131794	MrcdStat	-9.37E-07	-2.12E-04	-8.14E-07	-1.84E-04	-8.14E-07	-1.84E-04
723663	4131784	MrcdStat	-8.93E-07	-2.02E-04	-7.43E-07	-1.68E-04	-7.43E-07	-1.68E-04
723686	4131775	MrcdStat	-8.75E-07	-1.98E-04	-6.90E-07	-1.56E-04	-6.90E-07	-1.56E-04
723709.1	4131765	MrcdStat	-8.58E-07	-1.94E-04	-6.46E-07	-1.46E-04	-6.46E-07	-1.46E-04
723732.1	4131755	MrcdStat	-8.14E-07	-1.84E-04	-6.01E-07	-1.36E-04	-6.01E-07	-1.36E-04
723755.2	4131746	MrcdStat	-7.60E-07	-1.72E-04	-5.57E-07	-1.26E-04	-5.57E-07	-1.26E-04
723778.3	4131736	MrcdStat	-6.99E-07	-1.58E-04	-5.04E-07	-1.14E-04	-5.04E-07	-1.14E-04
723801.3	4131726	MrcdStat	-6.28E-07	-1.42E-04	-4.51E-07	-1.02E-04	-4.51E-07	-1.02E-04
723824.4	4131717	MrcdStat	-5.66E-07	-1.28E-04	-4.07E-07	-9.20E-05	-4.07E-07	-9.20E-05
723847.4	4131707	MrcdStat	-5.13E-07	-1.16E-04	-3.71E-07	-8.40E-05	-3.71E-07	-8.40E-05
723870.5	4131698	MrcdStat	-4.60E-07	-1.04E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723893.6	4131688	MrcdStat	-4.16E-07	-9.40E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723916.6	4131678	MrcdStat	-3.71E-07	-8.40E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723939.7	4131669	MrcdStat	-3.36E-07	-7.60E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723165.3	4132020	MrcdStat	-2.03E-07	-4.60E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723188.3	4132010	MrcdStat	-2.12E-07	-4.80E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723211.4	4132001	MrcdStat	-2.21E-07	-5.00E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723234.5	4131991	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723257.5	4131981	MrcdStat	-2.39E-07	-5.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723280.6	4131972	MrcdStat	-2.39E-07	-5.40E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723303.6	4131962	MrcdStat	-2.48E-07	-5.60E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723326.7	4131952	MrcdStat	-2.56E-07	-5.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723349.8	4131943	MrcdStat	-2.56E-07	-5.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723372.8	4131933	MrcdStat	-2.65E-07	-6.00E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723395.9	4131923	MrcdStat	-2.65E-07	-6.00E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723418.9	4131914	MrcdStat	-2.74E-07	-6.20E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723442	4131904	MrcdStat	-2.74E-07	-6.20E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723465.1	4131894	MrcdStat	-2.83E-07	-6.40E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723488.1	4131885	MrcdStat	-2.92E-07	-6.60E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723511.2	4131875	MrcdStat	-3.09E-07	-7.00E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723534.2	4131865	MrcdStat	-3.45E-07	-7.80E-05	-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723557.3	4131856	MrcdStat	-4.16E-07	-9.40E-05	-3.54E-07	-8.00E-05	-3.54E-07	-8.00E-05
723580.4	4131846	MrcdStat	-5.48E-07	-1.24E-04	-4.86E-07	-1.10E-04	-4.86E-07	-1.10E-04
723603.4	4131836	MrcdStat	-8.75E-07	-1.98E-04	-7.87E-07	-1.78E-04	-7.87E-07	-1.78E-04

723626.5	4131827	MrcdStat	-1.24E-06	-2.80E-04	-1.11E-06	-2.52E-04	-1.11E-06	-2.52E-04
723649.5	4131817	MrcdStat	-1.09E-06	-2.46E-04	-9.11E-07	-2.06E-04	-9.11E-07	-2.06E-04
723672.6	4131807	MrcdStat	-1.08E-06	-2.44E-04	-8.58E-07	-1.94E-04	-8.58E-07	-1.94E-04
723695.7	4131798	MrcdStat	-1.05E-06	-2.38E-04	-7.96E-07	-1.80E-04	-7.96E-07	-1.80E-04
723718.7	4131788	MrcdStat	-9.90E-07	-2.24E-04	-7.34E-07	-1.66E-04	-7.34E-07	-1.66E-04
723741.8	4131779	MrcdStat	-9.11E-07	-2.06E-04	-6.54E-07	-1.48E-04	-6.54E-07	-1.48E-04
723764.8	4131769	MrcdStat	-8.14E-07	-1.84E-04	-5.84E-07	-1.32E-04	-5.84E-07	-1.32E-04
723787.9	4131759	MrcdStat	-7.16E-07	-1.62E-04	-5.13E-07	-1.16E-04	-5.13E-07	-1.16E-04
723811	4131750	MrcdStat	-6.37E-07	-1.44E-04	-4.42E-07	-1.00E-04	-4.42E-07	-1.00E-04
723834	4131740	MrcdStat	-5.66E-07	-1.28E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723857.1	4131730	MrcdStat	-4.95E-07	-1.12E-04	-3.54E-07	-8.00E-05	-3.54E-07	-8.00E-05
723880.1	4131721	MrcdStat	-4.42E-07	-1.00E-04	-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723903.2	4131711	MrcdStat	-3.89E-07	-8.80E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723926.3	4131701	MrcdStat	-3.54E-07	-8.00E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723949.3	4131692	MrcdStat	-3.18E-07	-7.20E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723174.9	4132043	MrcdStat	-2.39E-07	-5.40E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723198	4132033	MrcdStat	-2.39E-07	-5.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723221.1	4132024	MrcdStat	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723244.1	4132014	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723267.2	4132004	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723290.2	4131995	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723313.3	4131985	MrcdStat	-2.74E-07	-6.20E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723336.4	4131975	MrcdStat	-2.83E-07	-6.40E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723359.4	4131966	MrcdStat	-2.92E-07	-6.60E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723382.5	4131956	MrcdStat	-3.01E-07	-6.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723405.5	4131946	MrcdStat	-3.01E-07	-6.80E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723428.6	4131937	MrcdStat	-3.09E-07	-7.00E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723451.7	4131927	MrcdStat	-3.18E-07	-7.20E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723474.7	4131917	MrcdStat	-3.09E-07	-7.00E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723497.8	4131908	MrcdStat	-3.27E-07	-7.40E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723520.8	4131898	MrcdStat	-3.45E-07	-7.80E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723543.9	4131888	MrcdStat	-3.80E-07	-8.60E-05	-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723567	4131879	MrcdStat	-4.60E-07	-1.04E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723590	4131869	MrcdStat	-6.19E-07	-1.40E-04	-5.39E-07	-1.22E-04	-5.39E-07	-1.22E-04
723613.1	4131860	MrcdStat	-1.02E-06	-2.30E-04	-9.11E-07	-2.06E-04	-9.11E-07	-2.06E-04
723636.1	4131850	MrcdStat	-1.41E-06	-3.20E-04	-1.23E-06	-2.78E-04	-1.23E-06	-2.78E-04
723659.2	4131840	MrcdStat	-1.37E-06	-3.10E-04	-1.11E-06	-2.50E-04	-1.11E-06	-2.50E-04
723682.3	4131831	MrcdStat	-1.34E-06	-3.02E-04	-1.02E-06	-2.30E-04	-1.02E-06	-2.30E-04
723705.3	4131821	MrcdStat	-1.23E-06	-2.78E-04	-9.02E-07	-2.04E-04	-9.02E-07	-2.04E-04
723728.4	4131811	MrcdStat	-1.10E-06	-2.48E-04	-7.87E-07	-1.78E-04	-7.87E-07	-1.78E-04
723751.4	4131802	MrcdStat	-9.46E-07	-2.14E-04	-6.72E-07	-1.52E-04	-6.72E-07	-1.52E-04
723774.5	4131792	MrcdStat	-8.14E-07	-1.84E-04	-5.75E-07	-1.30E-04	-5.75E-07	-1.30E-04
723797.6	4131782	MrcdStat	-6.99E-07	-1.58E-04	-4.86E-07	-1.10E-04	-4.86E-07	-1.10E-04
723820.6	4131773	MrcdStat	-6.10E-07	-1.38E-04	-4.33E-07	-9.80E-05	-4.33E-07	-9.80E-05
723843.7	4131763	MrcdStat	-5.31E-07	-1.20E-04	-3.71E-07	-8.40E-05	-3.71E-07	-8.40E-05
723866.7	4131753	MrcdStat	-4.60E-07	-1.04E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723889.8	4131744	MrcdStat	-4.07E-07	-9.20E-05	-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05

723912.9	4131734	MrcdStat	-3.63E-07	-8.20E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723935.9	4131724	MrcdStat	-3.27E-07	-7.40E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723959	4131715	MrcdStat	-3.01E-07	-6.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723184.6	4132066	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723207.7	4132056	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723230.7	4132047	MrcdStat	-2.74E-07	-6.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723253.8	4132037	MrcdStat	-2.83E-07	-6.40E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723276.8	4132027	MrcdStat	-2.92E-07	-6.60E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723299.9	4132018	MrcdStat	-3.01E-07	-6.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723323	4132008	MrcdStat	-3.09E-07	-7.00E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723346	4131998	MrcdStat	-3.18E-07	-7.20E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723369.1	4131989	MrcdStat	-3.27E-07	-7.40E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723392.1	4131979	MrcdStat	-3.36E-07	-7.60E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723415.2	4131969	MrcdStat	-3.54E-07	-8.00E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723438.3	4131960	MrcdStat	-3.54E-07	-8.00E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723461.3	4131950	MrcdStat	-3.63E-07	-8.20E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723484.4	4131941	MrcdStat	-3.63E-07	-8.20E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723507.4	4131931	MrcdStat	-3.80E-07	-8.60E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723530.5	4131921	MrcdStat	-4.07E-07	-9.20E-05	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723553.6	4131912	MrcdStat	-4.60E-07	-1.04E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723576.6	4131902	MrcdStat	-5.92E-07	-1.34E-04	-5.13E-07	-1.16E-04	-5.13E-07	-1.16E-04
723599.7	4131892	MrcdStat	-8.49E-07	-1.92E-04	-7.60E-07	-1.72E-04	-7.60E-07	-1.72E-04
723622.7	4131883	MrcdStat	-1.36E-06	-3.08E-04	-1.19E-06	-2.70E-04	-1.19E-06	-2.70E-04
723645.8	4131873	MrcdStat	-1.86E-06	-4.20E-04	-1.56E-06	-3.52E-04	-1.56E-06	-3.52E-04
723668.9	4131863	MrcdStat	-1.73E-06	-3.92E-04	-1.33E-06	-3.00E-04	-1.33E-06	-3.00E-04
723691.9	4131854	MrcdStat	-1.55E-06	-3.50E-04	-1.12E-06	-2.54E-04	-1.12E-06	-2.54E-04
723715	4131844	MrcdStat	-1.31E-06	-2.96E-04	-9.28E-07	-2.10E-04	-9.28E-07	-2.10E-04
723738	4131834	MrcdStat	-1.08E-06	-2.44E-04	-7.60E-07	-1.72E-04	-7.60E-07	-1.72E-04
723761.1	4131825	MrcdStat	-9.02E-07	-2.04E-04	-6.28E-07	-1.42E-04	-6.28E-07	-1.42E-04
723784.2	4131815	MrcdStat	-7.52E-07	-1.70E-04	-5.22E-07	-1.18E-04	-5.22E-07	-1.18E-04
723807.2	4131805	MrcdStat	-6.37E-07	-1.44E-04	-4.51E-07	-1.02E-04	-4.51E-07	-1.02E-04
723830.3	4131796	MrcdStat	-5.48E-07	-1.24E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723853.3	4131786	MrcdStat	-4.77E-07	-1.08E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723876.4	4131776	MrcdStat	-4.24E-07	-9.60E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723899.5	4131767	MrcdStat	-3.71E-07	-8.40E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723922.5	4131757	MrcdStat	-3.36E-07	-7.60E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723945.6	4131747	MrcdStat	-3.01E-07	-6.80E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723968.6	4131738	MrcdStat	-2.74E-07	-6.20E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723194.3	4132089	MrcdStat	-3.01E-07	-6.80E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723217.3	4132079	MrcdStat	-3.09E-07	-7.00E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723240.4	4132070	MrcdStat	-3.18E-07	-7.20E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723263.4	4132060	MrcdStat	-3.27E-07	-7.40E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723286.5	4132050	MrcdStat	-3.36E-07	-7.60E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723309.6	4132041	MrcdStat	-3.45E-07	-7.80E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723332.6	4132031	MrcdStat	-3.54E-07	-8.00E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723355.7	4132022	MrcdStat	-3.71E-07	-8.40E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723378.7	4132012	MrcdStat	-3.80E-07	-8.60E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05

723401.8	4132002	MrcdStat	-3.98E-07	-9.00E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723424.9	4131993	MrcdStat	-4.07E-07	-9.20E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723447.9	4131983	MrcdStat	-4.16E-07	-9.40E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723471	4131973	MrcdStat	-4.24E-07	-9.60E-05	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723494	4131964	MrcdStat	-4.33E-07	-9.80E-05	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723517.1	4131954	MrcdStat	-4.51E-07	-1.02E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723540.2	4131944	MrcdStat	-5.22E-07	-1.18E-04	-4.24E-07	-9.60E-05	-4.24E-07	-9.60E-05
723563.2	4131935	MrcdStat	-7.16E-07	-1.62E-04	-6.28E-07	-1.42E-04	-6.28E-07	-1.42E-04
723586.3	4131925	MrcdStat	-1.16E-06	-2.62E-04	-1.07E-06	-2.42E-04	-1.07E-06	-2.42E-04
723609.3	4131915	MrcdStat	-1.32E-06	-2.98E-04	-1.20E-06	-2.72E-04	-1.20E-06	-2.72E-04
723632.4	4131906	MrcdStat	-2.12E-06	-4.80E-04	-1.82E-06	-4.12E-04	-1.82E-06	-4.12E-04
723655.5	4131896	MrcdStat	-2.22E-06	-5.02E-04	-1.69E-06	-3.82E-04	-1.69E-06	-3.82E-04
723678.5	4131886	MrcdStat	-1.91E-06	-4.32E-04	-1.36E-06	-3.08E-04	-1.36E-06	-3.08E-04
723701.6	4131877	MrcdStat	-1.50E-06	-3.40E-04	-1.05E-06	-2.38E-04	-1.05E-06	-2.38E-04
723724.6	4131867	MrcdStat	-1.18E-06	-2.66E-04	-8.22E-07	-1.86E-04	-8.22E-07	-1.86E-04
723747.7	4131857	MrcdStat	-9.46E-07	-2.14E-04	-6.54E-07	-1.48E-04	-6.54E-07	-1.48E-04
723770.8	4131848	MrcdStat	-7.78E-07	-1.76E-04	-5.48E-07	-1.24E-04	-5.48E-07	-1.24E-04
723793.8	4131838	MrcdStat	-6.54E-07	-1.48E-04	-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723816.9	4131828	MrcdStat	-5.57E-07	-1.26E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723839.9	4131819	MrcdStat	-4.86E-07	-1.10E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723863	4131809	MrcdStat	-4.24E-07	-9.60E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723886.1	4131799	MrcdStat	-3.80E-07	-8.60E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723909.1	4131790	MrcdStat	-3.36E-07	-7.60E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723932.2	4131780	MrcdStat	-3.09E-07	-7.00E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723955.2	4131770	MrcdStat	-2.74E-07	-6.20E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723978.3	4131761	MrcdStat	-2.56E-07	-5.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723203.9	4132112	MrcdStat	-3.63E-07	-8.20E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723227	4132102	MrcdStat	-3.71E-07	-8.40E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723250	4132093	MrcdStat	-3.80E-07	-8.60E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723273.1	4132083	MrcdStat	-3.89E-07	-8.80E-05	-2.56E-07	-5.80E-05	-2.56E-07	-5.80E-05
723296.1	4132074	MrcdStat	-4.07E-07	-9.20E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723319.2	4132064	MrcdStat	-4.16E-07	-9.40E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723342.3	4132054	MrcdStat	-4.24E-07	-9.60E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723365.3	4132045	MrcdStat	-4.33E-07	-9.80E-05	-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723388.4	4132035	MrcdStat	-4.60E-07	-1.04E-04	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723411.5	4132025	MrcdStat	-4.69E-07	-1.06E-04	-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723434.5	4132016	MrcdStat	-4.86E-07	-1.10E-04	-3.36E-07	-7.60E-05	-3.36E-07	-7.60E-05
723457.6	4132006	MrcdStat	-5.04E-07	-1.14E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723480.6	4131996	MrcdStat	-5.22E-07	-1.18E-04	-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723503.7	4131987	MrcdStat	-5.31E-07	-1.20E-04	-3.80E-07	-8.60E-05	-3.80E-07	-8.60E-05
723526.8	4131977	MrcdStat	-5.39E-07	-1.22E-04	-4.07E-07	-9.20E-05	-4.07E-07	-9.20E-05
723549.8	4131967	MrcdStat	-5.92E-07	-1.34E-04	-4.60E-07	-1.04E-04	-4.60E-07	-1.04E-04
723572.9	4131958	MrcdStat	-7.16E-07	-1.62E-04	-6.01E-07	-1.36E-04	-6.01E-07	-1.36E-04
723595.9	4131948	MrcdStat	-1.13E-06	-2.56E-04	-1.03E-06	-2.32E-04	-1.03E-06	-2.32E-04
723619	4131938	MrcdStat	-1.26E-06	-2.86E-04	-1.14E-06	-2.58E-04	-1.14E-06	-2.58E-04
723642.1	4131929	MrcdStat	-2.10E-06	-4.76E-04	-1.53E-06	-3.46E-04	-1.53E-06	-3.46E-04
723665.1	4131919	MrcdStat	-2.02E-06	-4.58E-04	-1.41E-06	-3.20E-04	-1.41E-06	-3.20E-04

723688.2	4131909	MrcdStat	-1.47E-06	-3.32E-04	-1.03E-06	-2.32E-04	-1.03E-06	-2.32E-04
723711.2	4131900	MrcdStat	-1.11E-06	-2.52E-04	-7.78E-07	-1.76E-04	-7.78E-07	-1.76E-04
723734.3	4131890	MrcdStat	-8.93E-07	-2.02E-04	-6.19E-07	-1.40E-04	-6.19E-07	-1.40E-04
723757.4	4131880	MrcdStat	-7.43E-07	-1.68E-04	-5.22E-07	-1.18E-04	-5.22E-07	-1.18E-04
723780.4	4131871	MrcdStat	-6.37E-07	-1.44E-04	-4.51E-07	-1.02E-04	-4.51E-07	-1.02E-04
723803.5	4131861	MrcdStat	-5.48E-07	-1.24E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723826.5	4131851	MrcdStat	-4.77E-07	-1.08E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723849.6	4131842	MrcdStat	-4.24E-07	-9.60E-05	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723872.7	4131832	MrcdStat	-3.80E-07	-8.60E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723895.7	4131822	MrcdStat	-3.45E-07	-7.80E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723918.8	4131813	MrcdStat	-3.09E-07	-7.00E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723941.8	4131803	MrcdStat	-2.83E-07	-6.40E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723964.9	4131794	MrcdStat	-2.56E-07	-5.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723988	4131784	MrcdStat	-2.39E-07	-5.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723213.6	4132135	MrcdStat	-4.60E-07	-1.04E-04	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723236.6	4132126	MrcdStat	-4.60E-07	-1.04E-04	-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723259.7	4132116	MrcdStat	-4.78E-07	-1.08E-04	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723282.7	4132106	MrcdStat	-4.78E-07	-1.08E-04	-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723305.8	4132097	MrcdStat	-5.04E-07	-1.14E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723328.9	4132087	MrcdStat	-5.04E-07	-1.14E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723351.9	4132077	MrcdStat	-5.22E-07	-1.18E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723375	4132068	MrcdStat	-5.31E-07	-1.20E-04	-3.45E-07	-7.80E-05	-3.45E-07	-7.80E-05
723398	4132058	MrcdStat	-5.57E-07	-1.26E-04	-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723421.1	4132048	MrcdStat	-5.66E-07	-1.28E-04	-3.71E-07	-8.40E-05	-3.71E-07	-8.40E-05
723444.2	4132039	MrcdStat	-5.92E-07	-1.34E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723467.2	4132029	MrcdStat	-6.01E-07	-1.36E-04	-4.07E-07	-9.20E-05	-4.07E-07	-9.20E-05
723490.3	4132019	MrcdStat	-6.28E-07	-1.42E-04	-4.24E-07	-9.60E-05	-4.24E-07	-9.60E-05
723513.3	4132010	MrcdStat	-6.28E-07	-1.42E-04	-4.33E-07	-9.80E-05	-4.33E-07	-9.80E-05
723536.4	4132000	MrcdStat	-6.54E-07	-1.48E-04	-4.51E-07	-1.02E-04	-4.51E-07	-1.02E-04
723559.5	4131990	MrcdStat	-6.72E-07	-1.52E-04	-4.77E-07	-1.08E-04	-4.77E-07	-1.08E-04
723582.5	4131981	MrcdStat	-6.72E-07	-1.52E-04	-4.77E-07	-1.08E-04	-4.77E-07	-1.08E-04
723605.6	4131971	MrcdStat	-5.22E-07	-1.18E-04	-3.98E-07	-9.00E-05	-3.98E-07	-9.00E-05
723628.6	4131961	MrcdStat	-4.95E-07	-1.12E-04	-3.89E-07	-8.80E-05	-3.89E-07	-8.80E-05
723651.7	4131952	MrcdStat	-6.99E-07	-1.58E-04	-5.22E-07	-1.18E-04	-5.22E-07	-1.18E-04
723674.8	4131942	MrcdStat	-8.58E-07	-1.94E-04	-6.19E-07	-1.40E-04	-6.19E-07	-1.40E-04
723697.8	4131932	MrcdStat	-7.87E-07	-1.78E-04	-5.66E-07	-1.28E-04	-5.66E-07	-1.28E-04
723720.9	4131923	MrcdStat	-6.99E-07	-1.58E-04	-5.04E-07	-1.14E-04	-5.04E-07	-1.14E-04
723743.9	4131913	MrcdStat	-6.28E-07	-1.42E-04	-4.51E-07	-1.02E-04	-4.51E-07	-1.02E-04
723767	4131903	MrcdStat	-5.75E-07	-1.30E-04	-4.07E-07	-9.20E-05	-4.07E-07	-9.20E-05
723790.1	4131894	MrcdStat	-5.13E-07	-1.16E-04	-3.63E-07	-8.20E-05	-3.63E-07	-8.20E-05
723813.1	4131884	MrcdStat	-4.60E-07	-1.04E-04	-3.27E-07	-7.40E-05	-3.27E-07	-7.40E-05
723836.2	4131875	MrcdStat	-4.16E-07	-9.40E-05	-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723859.2	4131865	MrcdStat	-3.71E-07	-8.40E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723882.3	4131855	MrcdStat	-3.36E-07	-7.60E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723905.4	4131846	MrcdStat	-3.09E-07	-7.00E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723928.4	4131836	MrcdStat	-2.83E-07	-6.40E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723951.5	4131826	MrcdStat	-2.56E-07	-5.80E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05

723974.5	4131817	MrcdStat	-2.39E-07	-5.40E-05		-1.68E-07	-3.80E-05		-1.68E-07	-3.80E-05
723997.6	4131807	MrcdStat	-2.21E-07	-5.00E-05		-1.59E-07	-3.60E-05		-1.59E-07	-3.60E-05
723223.2	4132158	MrcdStat	-3.36E-07	-7.60E-05		-2.21E-07	-5.00E-05		-2.21E-07	-5.00E-05
723246.3	4132149	MrcdStat	-3.45E-07	-7.80E-05		-2.30E-07	-5.20E-05		-2.30E-07	-5.20E-05
723269.3	4132139	MrcdStat	-3.54E-07	-8.00E-05		-2.30E-07	-5.20E-05		-2.30E-07	-5.20E-05
723292.4	4132129	MrcdStat	-3.63E-07	-8.20E-05		-2.39E-07	-5.40E-05		-2.39E-07	-5.40E-05
723315.5	4132120	MrcdStat	-3.71E-07	-8.40E-05		-2.48E-07	-5.60E-05		-2.48E-07	-5.60E-05
723338.5	4132110	MrcdStat	-3.80E-07	-8.60E-05		-2.56E-07	-5.80E-05		-2.56E-07	-5.80E-05
723361.6	4132100	MrcdStat	-4.07E-07	-9.20E-05		-2.65E-07	-6.00E-05		-2.65E-07	-6.00E-05
723384.6	4132091	MrcdStat	-4.16E-07	-9.40E-05		-2.74E-07	-6.20E-05		-2.74E-07	-6.20E-05
723407.7	4132081	MrcdStat	-4.33E-07	-9.80E-05		-2.83E-07	-6.40E-05		-2.83E-07	-6.40E-05
723430.8	4132071	MrcdStat	-4.51E-07	-1.02E-04		-2.92E-07	-6.60E-05		-2.92E-07	-6.60E-05
723453.8	4132062	MrcdStat	-4.69E-07	-1.06E-04		-3.09E-07	-7.00E-05		-3.09E-07	-7.00E-05
723476.9	4132052	MrcdStat	-4.86E-07	-1.10E-04		-3.27E-07	-7.40E-05		-3.27E-07	-7.40E-05
723499.9	4132042	MrcdStat	-5.04E-07	-1.14E-04		-3.36E-07	-7.60E-05		-3.36E-07	-7.60E-05
723523	4132033	MrcdStat	-5.22E-07	-1.18E-04		-3.54E-07	-8.00E-05		-3.54E-07	-8.00E-05
723546.1	4132023	MrcdStat	-5.48E-07	-1.24E-04		-3.80E-07	-8.60E-05		-3.80E-07	-8.60E-05
723569.1	4132013	MrcdStat	-5.84E-07	-1.32E-04		-4.07E-07	-9.20E-05		-4.07E-07	-9.20E-05
723592.2	4132004	MrcdStat	-5.39E-07	-1.22E-04		-3.80E-07	-8.60E-05		-3.80E-07	-8.60E-05
723615.2	4131994	MrcdStat	-3.36E-07	-7.60E-05		-2.56E-07	-5.80E-05		-2.56E-07	-5.80E-05
723638.3	4131984	MrcdStat	-2.74E-07	-6.20E-05		-2.21E-07	-5.00E-05		-2.21E-07	-5.00E-05
723661.4	4131975	MrcdStat	-3.98E-07	-9.00E-05		-3.01E-07	-6.80E-05		-3.01E-07	-6.80E-05
723684.4	4131965	MrcdStat	-4.86E-07	-1.10E-04		-3.54E-07	-8.00E-05		-3.54E-07	-8.00E-05
723707.5	4131956	MrcdStat	-5.04E-07	-1.14E-04		-3.71E-07	-8.40E-05		-3.71E-07	-8.40E-05
723730.5	4131946	MrcdStat	-5.13E-07	-1.16E-04		-3.71E-07	-8.40E-05		-3.71E-07	-8.40E-05
723753.6	4131936	MrcdStat	-4.95E-07	-1.12E-04		-3.54E-07	-8.00E-05		-3.54E-07	-8.00E-05
723776.7	4131927	MrcdStat	-4.69E-07	-1.06E-04		-3.36E-07	-7.60E-05		-3.36E-07	-7.60E-05
723799.7	4131917	MrcdStat	-4.42E-07	-1.00E-04		-3.09E-07	-7.00E-05		-3.09E-07	-7.00E-05
723822.8	4131907	MrcdStat	-4.07E-07	-9.20E-05		-2.92E-07	-6.60E-05		-2.92E-07	-6.60E-05
723845.8	4131898	MrcdStat	-3.71E-07	-8.40E-05		-2.65E-07	-6.00E-05		-2.65E-07	-6.00E-05
723868.9	4131888	MrcdStat	-3.36E-07	-7.60E-05		-2.39E-07	-5.40E-05		-2.39E-07	-5.40E-05
723892	4131878	MrcdStat	-3.09E-07	-7.00E-05		-2.21E-07	-5.00E-05		-2.21E-07	-5.00E-05
723915	4131869	MrcdStat	-2.83E-07	-6.40E-05		-2.03E-07	-4.60E-05		-2.03E-07	-4.60E-05
723938.1	4131859	MrcdStat	-2.56E-07	-5.80E-05		-1.86E-07	-4.20E-05		-1.86E-07	-4.20E-05
723961.1	4131849	MrcdStat	-2.39E-07	-5.40E-05		-1.77E-07	-4.00E-05		-1.77E-07	-4.00E-05
723984.2	4131840	MrcdStat	-2.30E-07	-5.20E-05		-1.59E-07	-3.60E-05		-1.59E-07	-3.60E-05
724007.3	4131830	MrcdStat	-2.12E-07	-4.80E-05		-1.50E-07	-3.40E-05		-1.50E-07	-3.40E-05
723232.9	4132181	MrcdStat	-2.65E-07	-6.00E-05		-1.77E-07	-4.00E-05		-1.77E-07	-4.00E-05
723255.9	4132172	MrcdStat	-2.74E-07	-6.20E-05		-1.86E-07	-4.20E-05		-1.86E-07	-4.20E-05
723279	4132162	MrcdStat	-2.83E-07	-6.40E-05		-1.86E-07	-4.20E-05		-1.86E-07	-4.20E-05
723302.1	4132152	MrcdStat	-3.01E-07	-6.80E-05		-1.95E-07	-4.40E-05		-1.95E-07	-4.40E-05
723325.1	4132143	MrcdStat	-3.09E-07	-7.00E-05		-2.03E-07	-4.60E-05		-2.03E-07	-4.60E-05
723348.2	4132133	MrcdStat	-3.18E-07	-7.20E-05		-2.12E-07	-4.80E-05		-2.12E-07	-4.80E-05
723371.2	4132123	MrcdStat	-3.36E-07	-7.60E-05		-2.21E-07	-5.00E-05		-2.21E-07	-5.00E-05
723394.3	4132114	MrcdStat	-3.45E-07	-7.80E-05		-2.30E-07	-5.20E-05		-2.30E-07	-5.20E-05
723417.4	4132104	MrcdStat	-3.63E-07	-8.20E-05		-2.39E-07	-5.40E-05		-2.39E-07	-5.40E-05
723440.4	4132094	MrcdStat	-3.80E-07	-8.60E-05		-2.56E-07	-5.80E-05		-2.56E-07	-5.80E-05

723463.5	4132085	MrcdStat	-3.98E-07	-9.00E-05		-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723486.5	4132075	MrcdStat	-4.07E-07	-9.20E-05		-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723509.6	4132065	MrcdStat	-4.16E-07	-9.40E-05		-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723532.7	4132056	MrcdStat	-4.24E-07	-9.60E-05		-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723555.7	4132046	MrcdStat	-4.24E-07	-9.60E-05		-2.92E-07	-6.60E-05	-2.92E-07	-6.60E-05
723578.8	4132036	MrcdStat	-4.07E-07	-9.20E-05		-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723601.8	4132027	MrcdStat	-3.45E-07	-7.80E-05		-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723624.9	4132017	MrcdStat	-2.83E-07	-6.40E-05		-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723648	4132008	MrcdStat	-2.65E-07	-6.00E-05		-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723671	4131998	MrcdStat	-3.09E-07	-7.00E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723694.1	4131988	MrcdStat	-3.80E-07	-8.60E-05		-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723717.1	4131979	MrcdStat	-4.24E-07	-9.60E-05		-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723740.2	4131969	MrcdStat	-4.51E-07	-1.02E-04		-3.18E-07	-7.20E-05	-3.18E-07	-7.20E-05
723763.3	4131959	MrcdStat	-4.42E-07	-1.00E-04		-3.09E-07	-7.00E-05	-3.09E-07	-7.00E-05
723786.3	4131950	MrcdStat	-4.24E-07	-9.60E-05		-3.01E-07	-6.80E-05	-3.01E-07	-6.80E-05
723809.4	4131940	MrcdStat	-4.07E-07	-9.20E-05		-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723832.4	4131930	MrcdStat	-3.71E-07	-8.40E-05		-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723855.5	4131921	MrcdStat	-3.45E-07	-7.80E-05		-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723878.6	4131911	MrcdStat	-3.18E-07	-7.20E-05		-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723901.6	4131901	MrcdStat	-2.92E-07	-6.60E-05		-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723924.7	4131892	MrcdStat	-2.65E-07	-6.00E-05		-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723947.7	4131882	MrcdStat	-2.48E-07	-5.60E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723970.8	4131872	MrcdStat	-2.39E-07	-5.40E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723993.9	4131863	MrcdStat	-2.21E-07	-5.00E-05		-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
724016.9	4131853	MrcdStat	-2.03E-07	-4.60E-05		-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723242.5	4132204	MrcdStat	-2.30E-07	-5.20E-05		-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723265.6	4132195	MrcdStat	-2.39E-07	-5.40E-05		-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723288.7	4132185	MrcdStat	-2.48E-07	-5.60E-05		-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723311.7	4132175	MrcdStat	-2.56E-07	-5.80E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723334.8	4132166	MrcdStat	-2.65E-07	-6.00E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723357.8	4132156	MrcdStat	-2.74E-07	-6.20E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723380.9	4132146	MrcdStat	-2.92E-07	-6.60E-05		-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723404	4132137	MrcdStat	-3.01E-07	-6.80E-05		-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723427	4132127	MrcdStat	-3.09E-07	-7.00E-05		-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723450.1	4132117	MrcdStat	-3.18E-07	-7.20E-05		-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723473.1	4132108	MrcdStat	-3.27E-07	-7.40E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723496.2	4132098	MrcdStat	-3.36E-07	-7.60E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723519.3	4132089	MrcdStat	-3.36E-07	-7.60E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723542.3	4132079	MrcdStat	-3.27E-07	-7.40E-05		-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723565.4	4132069	MrcdStat	-3.09E-07	-7.00E-05		-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723588.4	4132060	MrcdStat	-2.83E-07	-6.40E-05		-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723611.5	4132050	MrcdStat	-2.56E-07	-5.80E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723634.6	4132040	MrcdStat	-2.30E-07	-5.20E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723657.6	4132031	MrcdStat	-2.21E-07	-5.00E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723680.7	4132021	MrcdStat	-2.39E-07	-5.40E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723703.7	4132011	MrcdStat	-2.83E-07	-6.40E-05		-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723726.8	4132002	MrcdStat	-3.45E-07	-7.80E-05		-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05

723749.9	4131992	MrcdStat	-3.89E-07	-8.80E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723772.9	4131982	MrcdStat	-4.07E-07	-9.20E-05	-2.83E-07	-6.40E-05	-2.83E-07	-6.40E-05
723796	4131973	MrcdStat	-3.98E-07	-9.00E-05	-2.74E-07	-6.20E-05	-2.74E-07	-6.20E-05
723819	4131963	MrcdStat	-3.80E-07	-8.60E-05	-2.65E-07	-6.00E-05	-2.65E-07	-6.00E-05
723842.1	4131953	MrcdStat	-3.54E-07	-8.00E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723865.2	4131944	MrcdStat	-3.27E-07	-7.40E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723888.2	4131934	MrcdStat	-3.01E-07	-6.80E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723911.3	4131924	MrcdStat	-2.74E-07	-6.20E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723934.3	4131915	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723957.4	4131905	MrcdStat	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723980.5	4131895	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
724003.5	4131886	MrcdStat	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
724026.6	4131876	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723252.2	4132227	MrcdStat	-2.12E-07	-4.80E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723275.2	4132218	MrcdStat	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723298.3	4132208	MrcdStat	-2.21E-07	-5.00E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723321.4	4132198	MrcdStat	-2.30E-07	-5.20E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723344.4	4132189	MrcdStat	-2.39E-07	-5.40E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723367.5	4132179	MrcdStat	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723390.5	4132170	MrcdStat	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723413.6	4132160	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723436.7	4132150	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723459.7	4132141	MrcdStat	-2.74E-07	-6.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723482.8	4132131	MrcdStat	-2.74E-07	-6.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723505.8	4132121	MrcdStat	-2.74E-07	-6.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723528.9	4132112	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723552	4132102	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723575	4132092	MrcdStat	-2.39E-07	-5.40E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723598.1	4132083	MrcdStat	-2.21E-07	-5.00E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723621.1	4132073	MrcdStat	-2.03E-07	-4.60E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723644.2	4132063	MrcdStat	-1.95E-07	-4.40E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723667.3	4132054	MrcdStat	-1.86E-07	-4.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723690.3	4132044	MrcdStat	-1.95E-07	-4.40E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723713.4	4132034	MrcdStat	-2.21E-07	-5.00E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723736.4	4132025	MrcdStat	-2.65E-07	-6.00E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723759.5	4132015	MrcdStat	-3.18E-07	-7.20E-05	-2.21E-07	-5.00E-05	-2.21E-07	-5.00E-05
723782.6	4132005	MrcdStat	-3.45E-07	-7.80E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723805.6	4131996	MrcdStat	-3.54E-07	-8.00E-05	-2.48E-07	-5.60E-05	-2.48E-07	-5.60E-05
723828.7	4131986	MrcdStat	-3.45E-07	-7.80E-05	-2.39E-07	-5.40E-05	-2.39E-07	-5.40E-05
723851.7	4131976	MrcdStat	-3.27E-07	-7.40E-05	-2.30E-07	-5.20E-05	-2.30E-07	-5.20E-05
723874.8	4131967	MrcdStat	-3.18E-07	-7.20E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723897.9	4131957	MrcdStat	-2.92E-07	-6.60E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723920.9	4131947	MrcdStat	-2.74E-07	-6.20E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723944	4131938	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723967.1	4131928	MrcdStat	-2.39E-07	-5.40E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723990.1	4131918	MrcdStat	-2.21E-07	-5.00E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
724013.2	4131909	MrcdStat	-2.03E-07	-4.60E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05

724036.2	4131899	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723261.8	4132251	MrcdStat	-1.86E-07	-4.20E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723284.9	4132241	MrcdStat	-1.95E-07	-4.40E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723308	4132231	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723331	4132222	MrcdStat	-2.03E-07	-4.60E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723354.1	4132212	MrcdStat	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723377.1	4132202	MrcdStat	-2.12E-07	-4.80E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723400.2	4132193	MrcdStat	-2.21E-07	-5.00E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723423.3	4132183	MrcdStat	-2.21E-07	-5.00E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723446.3	4132173	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723469.4	4132164	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723492.4	4132154	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723515.5	4132144	MrcdStat	-2.30E-07	-5.20E-05	-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723538.6	4132135	MrcdStat	-2.21E-07	-5.00E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723561.6	4132125	MrcdStat	-2.12E-07	-4.80E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723584.7	4132115	MrcdStat	-1.95E-07	-4.40E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723607.7	4132106	MrcdStat	-1.86E-07	-4.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723630.8	4132096	MrcdStat	-1.68E-07	-3.80E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723653.9	4132086	MrcdStat	-1.68E-07	-3.80E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723676.9	4132077	MrcdStat	-1.68E-07	-3.80E-05	-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723700	4132067	MrcdStat	-1.68E-07	-3.80E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723723	4132057	MrcdStat	-1.86E-07	-4.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723746.1	4132048	MrcdStat	-2.12E-07	-4.80E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723769.2	4132038	MrcdStat	-2.56E-07	-5.80E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723792.2	4132028	MrcdStat	-2.83E-07	-6.40E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723815.3	4132019	MrcdStat	-3.09E-07	-7.00E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723838.3	4132009	MrcdStat	-3.18E-07	-7.20E-05	-2.12E-07	-4.80E-05	-2.12E-07	-4.80E-05
723861.4	4131999	MrcdStat	-3.09E-07	-7.00E-05	-2.03E-07	-4.60E-05	-2.03E-07	-4.60E-05
723884.5	4131990	MrcdStat	-2.92E-07	-6.60E-05	-1.95E-07	-4.40E-05	-1.95E-07	-4.40E-05
723907.5	4131980	MrcdStat	-2.83E-07	-6.40E-05	-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723930.6	4131970	MrcdStat	-2.65E-07	-6.00E-05	-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723953.6	4131961	MrcdStat	-2.48E-07	-5.60E-05	-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723976.7	4131951	MrcdStat	-2.30E-07	-5.20E-05	-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
723999.8	4131942	MrcdStat	-2.12E-07	-4.80E-05	-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
724022.8	4131932	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
724045.9	4131922	MrcdStat	-1.86E-07	-4.20E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723271.5	4132274	MrcdStat	-1.68E-07	-3.80E-05	-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723294.6	4132264	MrcdStat	-1.77E-07	-4.00E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723317.6	4132254	MrcdStat	-1.77E-07	-4.00E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723340.7	4132245	MrcdStat	-1.86E-07	-4.20E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723363.7	4132235	MrcdStat	-1.86E-07	-4.20E-05	-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723386.8	4132225	MrcdStat	-1.86E-07	-4.20E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723409.9	4132216	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723432.9	4132206	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723456	4132196	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723479	4132187	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723502.1	4132177	MrcdStat	-1.95E-07	-4.40E-05	-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05

723525.2	4132167	MrcdStat	-1.86E-07	-4.20E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723548.2	4132158	MrcdStat	-1.86E-07	-4.20E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
723571.3	4132148	MrcdStat	-1.77E-07	-4.00E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723594.3	4132138	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723617.4	4132129	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723640.5	4132119	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723663.5	4132109	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723686.6	4132100	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723709.6	4132090	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723732.7	4132080	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723755.8	4132071	MrcdStat	-1.86E-07	-4.20E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723778.8	4132061	MrcdStat	-2.12E-07	-4.80E-05		-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
723801.9	4132051	MrcdStat	-2.39E-07	-5.40E-05		-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723824.9	4132042	MrcdStat	-2.65E-07	-6.00E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723848	4132032	MrcdStat	-2.74E-07	-6.20E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723871.1	4132023	MrcdStat	-2.74E-07	-6.20E-05		-1.86E-07	-4.20E-05	-1.86E-07	-4.20E-05
723894.1	4132013	MrcdStat	-2.65E-07	-6.00E-05		-1.77E-07	-4.00E-05	-1.77E-07	-4.00E-05
723917.2	4132003	MrcdStat	-2.56E-07	-5.80E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723940.2	4131994	MrcdStat	-2.48E-07	-5.60E-05		-1.68E-07	-3.80E-05	-1.68E-07	-3.80E-05
723963.3	4131984	MrcdStat	-2.30E-07	-5.20E-05		-1.59E-07	-3.60E-05	-1.59E-07	-3.60E-05
723986.4	4131974	MrcdStat	-2.21E-07	-5.00E-05		-1.50E-07	-3.40E-05	-1.50E-07	-3.40E-05
724009.4	4131965	MrcdStat	-2.03E-07	-4.60E-05		-1.41E-07	-3.20E-05	-1.41E-07	-3.20E-05
724032.5	4131955	MrcdStat	-1.95E-07	-4.40E-05		-1.33E-07	-3.00E-05	-1.33E-07	-3.00E-05
724055.5	4131945	MrcdStat	-1.77E-07	-4.00E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05
723281.2	4132297	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723304.2	4132287	MrcdStat	-1.59E-07	-3.60E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723327.3	4132277	MrcdStat	-1.59E-07	-3.60E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723350.3	4132268	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723373.4	4132258	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723396.5	4132248	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723419.5	4132239	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723442.6	4132229	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723465.6	4132219	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723488.7	4132210	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723511.8	4132200	MrcdStat	-1.68E-07	-3.80E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723534.8	4132190	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723557.9	4132181	MrcdStat	-1.59E-07	-3.60E-05		-1.15E-07	-2.60E-05	-1.15E-07	-2.60E-05
723580.9	4132171	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723604	4132161	MrcdStat	-1.50E-07	-3.40E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723627.1	4132152	MrcdStat	-1.41E-07	-3.20E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723650.1	4132142	MrcdStat	-1.33E-07	-3.00E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723673.2	4132132	MrcdStat	-1.41E-07	-3.20E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723696.2	4132123	MrcdStat	-1.41E-07	-3.20E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723719.3	4132113	MrcdStat	-1.41E-07	-3.20E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723742.4	4132104	MrcdStat	-1.50E-07	-3.40E-05		-9.73E-08	-2.20E-05	-9.73E-08	-2.20E-05
723765.4	4132094	MrcdStat	-1.68E-07	-3.80E-05		-1.06E-07	-2.40E-05	-1.06E-07	-2.40E-05
723788.5	4132084	MrcdStat	-1.77E-07	-4.00E-05		-1.24E-07	-2.80E-05	-1.24E-07	-2.80E-05

723811.5	4132075	MrcdStat	-1.95E-07	-4.40E-05			-1.33E-07	-3.00E-05			-1.33E-07	-3.00E-05
723834.6	4132065	MrcdStat	-2.12E-07	-4.80E-05			-1.41E-07	-3.20E-05			-1.41E-07	-3.20E-05
723857.7	4132055	MrcdStat	-2.30E-07	-5.20E-05			-1.50E-07	-3.40E-05			-1.50E-07	-3.40E-05
723880.7	4132046	MrcdStat	-2.39E-07	-5.40E-05			-1.59E-07	-3.60E-05			-1.59E-07	-3.60E-05
723903.8	4132036	MrcdStat	-2.39E-07	-5.40E-05			-1.59E-07	-3.60E-05			-1.59E-07	-3.60E-05
723926.8	4132026	MrcdStat	-2.30E-07	-5.20E-05			-1.50E-07	-3.40E-05			-1.50E-07	-3.40E-05
723949.9	4132017	MrcdStat	-2.21E-07	-5.00E-05			-1.50E-07	-3.40E-05			-1.50E-07	-3.40E-05
723973	4132007	MrcdStat	-2.12E-07	-4.80E-05			-1.41E-07	-3.20E-05			-1.41E-07	-3.20E-05
723996	4131997	MrcdStat	-2.03E-07	-4.60E-05			-1.41E-07	-3.20E-05			-1.41E-07	-3.20E-05
724019.1	4131988	MrcdStat	-1.95E-07	-4.40E-05			-1.33E-07	-3.00E-05			-1.33E-07	-3.00E-05
724042.1	4131978	MrcdStat	-1.86E-07	-4.20E-05			-1.24E-07	-2.80E-05			-1.24E-07	-2.80E-05
724065.2	4131968	MrcdStat	-1.68E-07	-3.80E-05			-1.15E-07	-2.60E-05			-1.15E-07	-2.60E-05

H3 Variant

RISK_SUM	Chronic HI	Top 10 Max Cancer		
1.50E-07	3.40E-05		4.86E-07	S3277
1.15E-07	2.60E-05		4.78E-07	S3276
8.84E-08	2.00E-05		4.60E-07	S3278
7.96E-08	1.80E-05		4.33E-07	S3275
7.96E-08	1.80E-05		3.89E-07	S3274
7.96E-08	1.80E-05		3.80E-07	S3279
6.19E-08	1.40E-05		3.36E-07	S3273
6.19E-08	1.40E-05		3.09E-07	S3244
5.31E-08	1.20E-05		3.01E-07	S3243
5.31E-08	1.20E-05		3.01E-07	S3243
5.31E-08	1.20E-05			
4.42E-08	1.00E-05	UCART1 Max Cancer		Chronic
4.42E-08	1.00E-05		1.50E-07	3.40E-05
4.42E-08	1.00E-05			
4.42E-08	1.00E-05	UCART2 Max Cancer		Chronic
4.42E-08	1.00E-05		9.73E-08	2.20E-05
3.54E-08	8.00E-06			
3.54E-08	8.00E-06	MrcdStat Min Cancer		Chronic
3.54E-08	8.00E-06		-1.82E-06	-4.12E-04
2.65E-08	6.00E-06			
2.65E-08	6.00E-06			
2.65E-08	6.00E-06			
2.65E-08	6.00E-06			
1.77E-08	4.00E-06			
2.65E-08	6.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
1.77E-08	4.00E-06			
8.84E-09	2.00E-06			
0.00E+00	0.00E+00			
1.41E-07	3.20E-05			
1.06E-07	2.40E-05			
8.84E-08	2.00E-05			
7.96E-08	1.80E-05			
7.96E-08	1.80E-05			
7.07E-08	1.60E-05			
7.07E-08	1.60E-05			
6.19E-08	1.40E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
5.31E-08	1.20E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
4.42E-08	1.00E-05			
3.54E-08	8.00E-06			

3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
1.33E-07	3.00E-05
1.06E-07	2.40E-05
9.73E-08	2.20E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
1.24E-07	2.80E-05
9.73E-08	2.20E-05

8.84E-08	2.00E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
1.24E-07	2.80E-05
1.06E-07	2.40E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
6.19E-08	1.40E-05
4.42E-08	1.00E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06

1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
1.24E-07	2.80E-05
1.06E-07	2.40E-05
8.84E-08	2.00E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
1.24E-07	2.80E-05
1.06E-07	2.40E-05
8.84E-08	2.00E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05

5.31E-08	1.20E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
1.33E-07	3.00E-05
1.06E-07	2.40E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00

0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
1.33E-07	3.00E-05
9.73E-08	2.20E-05
7.96E-08	1.80E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
3.54E-08	8.00E-06
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
1.33E-07	3.00E-05
9.73E-08	2.20E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06

2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.85E-09	2.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
1.33E-07	3.00E-05
9.73E-08	2.20E-05
7.96E-08	1.80E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06

-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
1.24E-07	2.80E-05
9.73E-08	2.20E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
1.24E-07	2.80E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
6.19E-08	1.40E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
1.24E-07	2.80E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.85E-09	-2.00E-06
-8.85E-09	-2.00E-06
-1.77E-08	-4.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
1.15E-07	2.60E-05

8.84E-08	2.00E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
0.00E+00	0.00E+00
-8.85E-09	-2.00E-06
-8.85E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
-3.54E-08	-8.00E-06
-3.54E-08	-8.00E-06
1.15E-07	2.60E-05
8.84E-08	2.00E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00

-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.85E-09	-2.00E-06
-8.85E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
-3.54E-08	-8.00E-06
-3.54E-08	-8.00E-06
1.15E-07	2.60E-05
8.84E-08	2.00E-05
7.08E-08	1.60E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-8.84E-09	-2.00E-06
-1.77E-08	-4.00E-06
-1.77E-08	-4.00E-06
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-3.54E-08	-8.00E-06
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1.15E-07	2.60E-05
7.96E-08	1.80E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05

4.42E-08	1.00E-05
4.42E-08	1.00E-05
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.85E-09	2.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
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-2.65E-08	-6.00E-06
-2.65E-08	-6.00E-06
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-3.54E-08	-8.00E-06
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4.42E-08	1.00E-05
3.54E-08	8.00E-06
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8.84E-09	2.00E-06
8.85E-09	2.00E-06
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0.00E+00	0.00E+00
0.00E+00	0.00E+00
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-2.65E-08	-6.00E-06

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7.96E-08	1.80E-05
6.19E-08	1.40E-05
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3.54E-08	8.00E-06
3.54E-08	8.00E-06
2.65E-08	6.00E-06
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1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.85E-09	2.00E-06
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0.00E+00	0.00E+00
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7.07E-08	1.60E-05
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4.42E-08	1.00E-05
3.54E-08	8.00E-06
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06

8.84E-09	2.00E-06
8.85E-09	2.00E-06
8.85E-09	2.00E-06
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7.96E-08	1.80E-05
6.19E-08	1.40E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
2.65E-08	6.00E-06
2.65E-08	6.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.85E-09	2.00E-06
8.85E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
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2.65E-08	6.00E-06
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1.77E-08	4.00E-06
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8.85E-09	2.00E-06
8.84E-09	2.00E-06
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6.19E-08	1.40E-05
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3.54E-08	8.00E-06
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1.77E-08	4.00E-06
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0.00E+00	0.00E+00
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3.54E-08	8.00E-06
2.65E-08	6.00E-06
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1.77E-08	4.00E-06
8.84E-09	2.00E-06
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4.42E-08	1.00E-05
2.65E-08	6.00E-06
1.77E-08	4.00E-06
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0.00E+00	0.00E+00
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1.77E-08	4.00E-06
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3.54E-08	8.00E-06
1.77E-08	4.00E-06
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7.96E-08	1.80E-05
4.42E-08	1.00E-05
2.65E-08	6.00E-06

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7.07E-08	1.60E-05
3.54E-08	8.00E-06
1.77E-08	4.00E-06
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-8.84E-08	-2.00E-05
7.07E-08	1.60E-05
3.54E-08	8.00E-06
1.77E-08	4.00E-06
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1.77E-08	4.00E-06
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-1.15E-07	-2.60E-05
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-9.73E-08	-2.20E-05

-7.96E-08	-1.80E-05
-7.07E-08	-1.60E-05
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-4.42E-08	-1.00E-05
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-4.42E-08	-1.00E-05

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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06

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8.84E-09	2.00E-06
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0.00E+00	0.00E+00
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06

0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00

0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
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1.77E-08	4.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
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1.77E-08	4.00E-06
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8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
0.00E+00	0.00E+00
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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1.77E-08	4.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
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1.77E-08	4.00E-06
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1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
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8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06

8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06

1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
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1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
8.84E-09	2.00E-06
8.84E-09	2.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
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1.77E-08	4.00E-06
2.65E-08	6.00E-06
8.84E-09	2.00E-06
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1.77E-08	4.00E-06

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0.00E+00	0.00E+00
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0.00E+00	0.00E+00
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8.84E-09	2.00E-06
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1.77E-08	4.00E-06
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8.85E-09	2.00E-06

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1.77E-08	4.00E-06
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2.65E-08	6.00E-06
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0.00E+00	0.00E+00
0.00E+00	0.00E+00
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8.85E-09	2.00E-06
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8.85E-09	2.00E-06
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0.00E+00	0.00E+00
8.84E-09	2.00E-06
8.84E-09	2.00E-06
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7.07E-08	1.60E-05
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7.07E-08	1.60E-05
7.96E-08	1.80E-05
7.96E-08	1.80E-05
8.84E-08	2.00E-05
1.15E-07	2.60E-05
1.50E-07	3.40E-05
1.95E-07	4.40E-05
2.39E-07	5.40E-05

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3.01E-07	6.80E-05
3.09E-07	7.00E-05
3.01E-07	6.80E-05
2.92E-07	6.60E-05
2.65E-07	6.00E-05
2.48E-07	5.60E-05
2.21E-07	5.00E-05
2.03E-07	4.60E-05
1.77E-07	4.00E-05
1.59E-07	3.60E-05
1.41E-07	3.20E-05
1.33E-07	3.00E-05
1.15E-07	2.60E-05
1.06E-07	2.40E-05
9.73E-08	2.20E-05
8.84E-08	2.00E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
7.96E-08	1.80E-05
8.84E-08	2.00E-05
1.06E-07	2.40E-05
1.15E-07	2.60E-05
1.33E-07	3.00E-05
1.41E-07	3.20E-05
1.59E-07	3.60E-05
1.77E-07	4.00E-05
2.03E-07	4.60E-05
2.30E-07	5.20E-05
2.56E-07	5.80E-05
3.01E-07	6.80E-05
3.36E-07	7.60E-05
3.89E-07	8.80E-05
4.33E-07	9.80E-05
4.78E-07	1.08E-04
4.86E-07	1.10E-04
4.60E-07	1.04E-04
3.80E-07	8.60E-05
2.74E-07	6.20E-05
1.77E-07	4.00E-05
1.15E-07	2.60E-05
9.73E-08	2.20E-05
8.84E-08	2.00E-05
8.84E-08	2.00E-05
9.73E-08	2.20E-05
9.73E-08	2.20E-05
1.06E-07	2.40E-05

3.54E-08	8.00E-06
3.54E-08	8.00E-06
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
5.31E-08	1.20E-05
5.31E-08	1.20E-05
6.19E-08	1.40E-05
6.19E-08	1.40E-05
7.96E-08	1.80E-05
7.96E-08	1.80E-05
9.73E-08	2.20E-05
8.84E-08	2.00E-05
8.84E-08	2.00E-05
7.96E-08	1.80E-05
7.07E-08	1.60E-05
7.07E-08	1.60E-05
6.19E-08	1.40E-05
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
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1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4.00E-06
1.77E-08	4

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3.54E-08	8.00E-06
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3.54E-08	8.00E-06
3.54E-08	8.00E-06
3.54E-08	8.00E-06
5.31E-08	1.20E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
4.42E-08	1.00E-05
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2.65E-08	6.00E-06
1.77E-08	4.00E-06

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-2.56E-07	-5.80E-05
-3.09E-07	-7.00E-05
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-8.40E-07	-1.90E-04
-6.37E-07	-1.44E-04
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-3.98E-07	-9.00E-05
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-2.92E-07	-6.60E-05
-2.74E-07	-6.20E-05
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-2.48E-07	-5.60E-05
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-1.15E-07	-2.60E-05

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-1.15E-07	-2.60E-05
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-1.50E-07	-3.40E-05
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-2.30E-07	-5.20E-05
-2.65E-07	-6.00E-05
-3.27E-07	-7.40E-05
-4.24E-07	-9.60E-05

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-6.81E-07	-1.54E-04
-5.57E-07	-1.26E-04
-4.95E-07	-1.12E-04
-4.60E-07	-1.04E-04
-4.33E-07	-9.80E-05
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-3.63E-07	-8.20E-05
-3.45E-07	-7.80E-05
-3.18E-07	-7.20E-05
-3.01E-07	-6.80E-05
-2.74E-07	-6.20E-05
-2.65E-07	-6.00E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.24E-07	-2.80E-05
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-1.33E-07	-3.00E-05
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-1.41E-07	-3.20E-05
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-1.59E-07	-3.60E-05
-1.77E-07	-4.00E-05
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-2.30E-07	-5.20E-05
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-4.33E-07	-9.80E-05
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-5.39E-07	-1.22E-04
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-4.86E-07	-1.10E-04
-4.60E-07	-1.04E-04
-4.42E-07	-1.00E-04
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-3.89E-07	-8.80E-05
-3.54E-07	-8.00E-05

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-2.56E-07	-5.80E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
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-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
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-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.68E-07	-3.80E-05
-1.77E-07	-4.00E-05
-1.95E-07	-4.40E-05
-2.21E-07	-5.00E-05
-2.39E-07	-5.40E-05
-2.74E-07	-6.20E-05
-3.36E-07	-7.60E-05
-4.42E-07	-1.00E-04
-7.34E-07	-1.66E-04
-9.46E-07	-2.14E-04
-7.34E-07	-1.66E-04
-6.46E-07	-1.46E-04
-6.01E-07	-1.36E-04
-5.75E-07	-1.30E-04
-5.39E-07	-1.22E-04
-5.13E-07	-1.16E-04
-4.77E-07	-1.08E-04
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-3.98E-07	-9.00E-05
-3.63E-07	-8.20E-05
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-2.74E-07	-6.20E-05
-2.56E-07	-5.80E-05
-1.33E-07	-3.00E-05
-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.68E-07	-3.80E-05
-1.68E-07	-3.80E-05

-1.77E-07	-4.00E-05
-1.77E-07	-4.00E-05
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-1.95E-07	-4.40E-05
-1.95E-07	-4.40E-05
-2.03E-07	-4.60E-05
-2.21E-07	-5.00E-05
-2.48E-07	-5.60E-05
-2.83E-07	-6.40E-05
-3.45E-07	-7.80E-05
-4.60E-07	-1.04E-04
-7.69E-07	-1.74E-04
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-7.43E-07	-1.68E-04
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-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.68E-07	-3.80E-05
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-1.86E-07	-4.20E-05
-1.95E-07	-4.40E-05
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-2.12E-07	-4.80E-05
-2.21E-07	-5.00E-05
-2.21E-07	-5.00E-05
-2.39E-07	-5.40E-05
-2.56E-07	-5.80E-05
-2.92E-07	-6.60E-05
-3.54E-07	-8.00E-05
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-7.87E-07	-1.78E-04

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-3.89E-07	-8.80E-05
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-1.56E-06	-3.52E-04
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-3.01E-07	-6.80E-05
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-2.39E-07	-5.40E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
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-2.48E-07	-5.60E-05
-2.65E-07	-6.00E-05

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-3.45E-07	-7.80E-05
-4.24E-07	-9.60E-05
-6.19E-07	-1.40E-04
-1.07E-06	-2.42E-04
-1.20E-06	-2.72E-04
-1.82E-06	-4.12E-04
-1.69E-06	-3.82E-04
-1.37E-06	-3.10E-04
-1.05E-06	-2.38E-04
-8.22E-07	-1.86E-04
-6.54E-07	-1.48E-04
-5.39E-07	-1.22E-04
-4.60E-07	-1.04E-04
-3.98E-07	-9.00E-05
-3.45E-07	-7.80E-05
-3.01E-07	-6.80E-05
-2.74E-07	-6.20E-05
-2.48E-07	-5.60E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.86E-07	-4.20E-05
-2.39E-07	-5.40E-05
-2.39E-07	-5.40E-05
-2.56E-07	-5.80E-05
-2.56E-07	-5.80E-05
-2.65E-07	-6.00E-05
-2.74E-07	-6.20E-05
-2.83E-07	-6.40E-05
-2.92E-07	-6.60E-05
-3.09E-07	-7.00E-05
-3.18E-07	-7.20E-05
-3.36E-07	-7.60E-05
-3.45E-07	-7.80E-05
-3.63E-07	-8.20E-05
-3.80E-07	-8.60E-05
-4.07E-07	-9.20E-05
-4.60E-07	-1.04E-04
-6.01E-07	-1.36E-04
-1.03E-06	-2.32E-04
-1.14E-06	-2.58E-04
-1.53E-06	-3.46E-04
-1.41E-06	-3.20E-04

-1.03E-06	-2.32E-04
-7.78E-07	-1.76E-04
-6.19E-07	-1.40E-04
-5.22E-07	-1.18E-04
-4.51E-07	-1.02E-04
-3.89E-07	-8.80E-05
-3.45E-07	-7.80E-05
-3.01E-07	-6.80E-05
-2.74E-07	-6.20E-05
-2.48E-07	-5.60E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.86E-07	-4.20E-05
-1.68E-07	-3.80E-05
-3.01E-07	-6.80E-05
-3.01E-07	-6.80E-05
-3.09E-07	-7.00E-05
-3.18E-07	-7.20E-05
-3.27E-07	-7.40E-05
-3.27E-07	-7.40E-05
-3.45E-07	-7.80E-05
-3.54E-07	-8.00E-05
-3.63E-07	-8.20E-05
-3.71E-07	-8.40E-05
-3.89E-07	-8.80E-05
-4.07E-07	-9.20E-05
-4.24E-07	-9.60E-05
-4.33E-07	-9.80E-05
-4.51E-07	-1.02E-04
-4.77E-07	-1.08E-04
-4.86E-07	-1.10E-04
-3.98E-07	-9.00E-05
-3.89E-07	-8.80E-05
-5.22E-07	-1.18E-04
-6.19E-07	-1.40E-04
-5.57E-07	-1.26E-04
-5.04E-07	-1.14E-04
-4.51E-07	-1.02E-04
-4.07E-07	-9.20E-05
-3.63E-07	-8.20E-05
-3.27E-07	-7.40E-05
-3.01E-07	-6.80E-05
-2.65E-07	-6.00E-05
-2.39E-07	-5.40E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.86E-07	-4.20E-05

-1.68E-07	-3.80E-05
-1.59E-07	-3.60E-05
-2.21E-07	-5.00E-05
-2.30E-07	-5.20E-05
-2.30E-07	-5.20E-05
-2.39E-07	-5.40E-05
-2.48E-07	-5.60E-05
-2.56E-07	-5.80E-05
-2.65E-07	-6.00E-05
-2.74E-07	-6.20E-05
-2.83E-07	-6.40E-05
-2.92E-07	-6.60E-05
-3.09E-07	-7.00E-05
-3.27E-07	-7.40E-05
-3.36E-07	-7.60E-05
-3.54E-07	-8.00E-05
-3.71E-07	-8.40E-05
-4.07E-07	-9.20E-05
-3.80E-07	-8.60E-05
-2.56E-07	-5.80E-05
-2.21E-07	-5.00E-05
-3.01E-07	-6.80E-05
-3.54E-07	-8.00E-05
-3.71E-07	-8.40E-05
-3.71E-07	-8.40E-05
-3.54E-07	-8.00E-05
-3.36E-07	-7.60E-05
-3.18E-07	-7.20E-05
-2.92E-07	-6.60E-05
-2.65E-07	-6.00E-05
-2.39E-07	-5.40E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.86E-07	-4.20E-05
-1.77E-07	-4.00E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.77E-07	-4.00E-05
-1.86E-07	-4.20E-05
-1.86E-07	-4.20E-05
-1.95E-07	-4.40E-05
-2.03E-07	-4.60E-05
-2.12E-07	-4.80E-05
-2.21E-07	-5.00E-05
-2.30E-07	-5.20E-05
-2.39E-07	-5.40E-05
-2.48E-07	-5.60E-05

-2.65E-07	-6.00E-05
-2.83E-07	-6.40E-05
-2.83E-07	-6.40E-05
-2.92E-07	-6.60E-05
-2.92E-07	-6.60E-05
-2.83E-07	-6.40E-05
-2.48E-07	-5.60E-05
-2.12E-07	-4.80E-05
-1.95E-07	-4.40E-05
-2.30E-07	-5.20E-05
-2.74E-07	-6.20E-05
-3.01E-07	-6.80E-05
-3.18E-07	-7.20E-05
-3.09E-07	-7.00E-05
-3.01E-07	-6.80E-05
-2.83E-07	-6.40E-05
-2.65E-07	-6.00E-05
-2.39E-07	-5.40E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.95E-07	-4.40E-05
-1.77E-07	-4.00E-05
-1.68E-07	-3.80E-05
-1.50E-07	-3.40E-05
-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.68E-07	-3.80E-05
-1.77E-07	-4.00E-05
-1.77E-07	-4.00E-05
-1.86E-07	-4.20E-05
-2.03E-07	-4.60E-05
-2.12E-07	-4.80E-05
-2.21E-07	-5.00E-05
-2.30E-07	-5.20E-05
-2.30E-07	-5.20E-05
-2.30E-07	-5.20E-05
-2.30E-07	-5.20E-05
-2.21E-07	-5.00E-05
-2.03E-07	-4.60E-05
-1.77E-07	-4.00E-05
-1.68E-07	-3.80E-05
-1.68E-07	-3.80E-05
-1.77E-07	-4.00E-05
-2.03E-07	-4.60E-05
-2.39E-07	-5.40E-05

-2.74E-07	-6.20E-05
-2.83E-07	-6.40E-05
-2.74E-07	-6.20E-05
-2.65E-07	-6.00E-05
-2.48E-07	-5.60E-05
-2.30E-07	-5.20E-05
-2.12E-07	-4.80E-05
-1.95E-07	-4.40E-05
-1.86E-07	-4.20E-05
-1.68E-07	-3.80E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.41E-07	-3.20E-05
-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.68E-07	-3.80E-05
-1.68E-07	-3.80E-05
-1.77E-07	-4.00E-05
-1.86E-07	-4.20E-05
-1.86E-07	-4.20E-05
-1.86E-07	-4.20E-05
-1.86E-07	-4.20E-05
-1.86E-07	-4.20E-05
-1.77E-07	-4.00E-05
-1.68E-07	-3.80E-05
-1.59E-07	-3.60E-05
-1.41E-07	-3.20E-05
-1.41E-07	-3.20E-05
-1.33E-07	-3.00E-05
-1.41E-07	-3.20E-05
-1.59E-07	-3.60E-05
-1.86E-07	-4.20E-05
-2.21E-07	-5.00E-05
-2.39E-07	-5.40E-05
-2.48E-07	-5.60E-05
-2.39E-07	-5.40E-05
-2.30E-07	-5.20E-05
-2.12E-07	-4.80E-05
-2.03E-07	-4.60E-05
-1.86E-07	-4.20E-05
-1.77E-07	-4.00E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.41E-07	-3.20E-05

-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
-1.41E-07	-3.20E-05
-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.50E-07	-3.40E-05
-1.41E-07	-3.20E-05
-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.24E-07	-2.80E-05
-1.33E-07	-3.00E-05
-1.50E-07	-3.40E-05
-1.77E-07	-4.00E-05
-1.95E-07	-4.40E-05
-2.12E-07	-4.80E-05
-2.12E-07	-4.80E-05
-2.03E-07	-4.60E-05
-1.95E-07	-4.40E-05
-1.86E-07	-4.20E-05
-1.77E-07	-4.00E-05
-1.68E-07	-3.80E-05
-1.59E-07	-3.60E-05
-1.41E-07	-3.20E-05
-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.06E-07	-2.40E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
-1.24E-07	-2.80E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05

-1.33E-07	-3.00E-05
-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-1.15E-07	-2.60E-05
-1.24E-07	-2.80E-05
-1.41E-07	-3.20E-05
-1.59E-07	-3.60E-05
-1.77E-07	-4.00E-05
-1.77E-07	-4.00E-05
-1.86E-07	-4.20E-05
-1.77E-07	-4.00E-05
-1.77E-07	-4.00E-05
-1.68E-07	-3.80E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.41E-07	-3.20E-05
-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.15E-07	-2.60E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-9.73E-08	-2.20E-05
-9.73E-08	-2.20E-05
-9.73E-08	-2.20E-05
-9.73E-08	-2.20E-05
-9.73E-08	-2.20E-05
-1.06E-07	-2.40E-05
-1.06E-07	-2.40E-05
-1.24E-07	-2.80E-05

-1.33E-07	-3.00E-05
-1.41E-07	-3.20E-05
-1.50E-07	-3.40E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.59E-07	-3.60E-05
-1.50E-07	-3.40E-05
-1.41E-07	-3.20E-05
-1.41E-07	-3.20E-05
-1.33E-07	-3.00E-05
-1.24E-07	-2.80E-05
-1.15E-07	-2.60E-05

Section 6. CO Screening

Presents the CALINE4 model output for the carbon monoxide (CO) screening analysis. CO concentrations were modeled at the intersection of South San Joaquin Street and East Hazelton Avenue.

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 1

JOB: MITC Screening
RUN: CALINE4 RUN (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= 0.5 M/S Z0= 100. CM ALT= 0. (M)
BRG= WORST CASE VD= 0.0 CM/S
CLAS= 7 (G) VS= 0.0 CM/S
MIXH= 1000. M AMB= 0.0 PPM
SIGTH= 15. DEGREES TEMP= 2.8 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. EBA	* -1000	-4	0	-4	* AG	427	1.1	0.0	13.3
B. EBD	* 0	-4	1000	-4	* AG	467	1.1	0.0	13.3
C. WBA	* 1000	4	0	4	* AG	609	1.1	0.0	13.3
D. WBD	* 0	4	-1000	4	* AG	543	1.1	0.0	13.3
E. SBA	* -4	1000	-4	0	* AG	517	1.1	0.0	13.3
F. SBD	* -4	0	-4	-1000	* AG	573	1.1	0.0	13.3
G. NBA	* 4	-1000	4	0	* AG	498	1.1	0.0	13.3
H. NBD	* 4	0	4	1000	* AG	468	1.1	0.0	13.3

III. RECEPTOR LOCATIONS

RECEPTOR	* COORDINATES (M) X	Y	Z
1. R_001	* -11	10	1.8
2. R_002	* 10	10	1.8
3. R_003	* -11	-11	1.8
4. R_004	* 10	-11	1.8

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JOB: MITC Screening
RUN: CALINE4 RUN (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	PRED BRG (DEG)	PRED CONC (PPM)	CONC/LINK (PPM) A	B	C	D	E	F	G	H
1. R_001	98.	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
2. R_002	188.	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
3. R_003	82.	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
4. R_004	352.	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1

Section 7. Operations Analysis of 12 Daily Roundtrips

Summarizes net operations criteria pollutant and GHG emissions by air basin under the 12 daily roundtrip service schedule. Refer to Section 2, *Operations*, of this appendix for emissions calculations and model outputs by source.

Table 1 summarizes estimated net operations criteria pollutant emissions in the SJVAB under a 12 daily roundtrip service schedule. Tables 2 and 3 present the net result in the SFBAAB and SVAB, respectively. The estimates reflect the difference between emissions generated by San Joaquins operations, station and facility operations, bus bridge (no Project only), and connecting bus transit and reductions achieved by avoided VMT and trips, where negative values represent a net reduction in emissions under the operating condition. All tables include modeling results for the three Project variants. Table 4 presents the transport emissions that would be generated under the hydrogen variants outside the expanded air quality study area under the worst-case transport scenario that is being considered for the purposes of analyses. Table 5 presents the net GHG modeling for the Project and Project variants. Refer to Section 2 of this appendix for emissions calculations and model outputs by source (e.g., San Joaquins operations).

Table 1. Estimated Criteria Pollutant and Ozone Precursor Emissions from Project Operations and Project Variant Operations in the SJVAB under a 12 Daily Roundtrip Service Schedule

Condition	Net Daily Emissions (lbs/day) [a]						Net Annual Emissions (tons/year) [a]					
	ROG	NO_X	CO	PM10	PM2.5	SO_2	ROG	NO_X	CO	PM10	PM2.5	SO_2
Existing (2022)	9	511	-148	-137	-28	<0	1	92	-28	-25	-5	<0
Opening (2032) No Project	-3	173	-579	-411	-100	-2	-1	30	-107	-75	-18	<0
Hydrogen Variant [b]	-9	49	-741	-411	-101	-3	-2	7	-136	-75	-19	-1
Opening (2032) Project	-5	167	-677	-461	-113	-3	-1	29	-125	-84	-21	-1
Variant H1	-10	41	-840	-462	-114	-3	-2	6	-154	-85	-21	-1
Variant H2	-10	43	-840	-461	-114	-3	-2	6	-154	-84	-21	-1
Variant H3	-10	41	-839	-463	-114	-3	-2	6	-154	-85	-21	-1
Horizon (2040) No Project	5	188	-301	-317	-76	-1	1	33	-56	-58	-14	<0
Hydrogen Variant (limited) [b]	-1	62	-464	-317	-78	-2	<0	10	-85	-58	-14	<0
Hydrogen Variant (full) [b]	-3	-2	-547	-317	-79	-2	-1	-2	-101	-58	-14	<0
Horizon (2040) Project	4	184	-376	-361	-87	-2	<1	32	-69	-66	-16	<0
Variant H1 (limited)	-2	58	-539	-362	-89	-2	-1	9	-99	-66	-16	<0
Variant H1 (full)	-4	-6	-622	-362	-90	-3	-1	-3	-114	-66	-16	<0
Variant H2 (limited)	-2	59	-538	-361	-89	-2	-1	9	-99	-66	-16	<0
Variant H2 (full)	-4	-6	-622	-361	-90	-3	-1	-2	-114	-66	-16	<0
Variant H3 (limited)	-2	58	-538	-363	-89	-2	-1	9	-99	-66	-16	<0
Variant H3 (full)	-4	-7	-621	-364	-90	-3	-1	-3	-114	-67	-17	<0
Comparison to Existing [c]												
Opening (2032) Project	-13	-344	-529	-323	-84	-3	-3	-63	-97	-59	-15	-1
Variant H1	-19	-469	-692	-324	-86	-3	-4	-86	-126	-59	-16	-1
Variant H2	-19	-468	-692	-324	-86	-3	-4	-86	-126	-59	-16	-1
Variant H3	-19	-469	-691	-325	-86	-3	-4	-86	-126	-59	-16	-1
Horizon (2040) Project	-5	-327	-228	-223	-59	-2	-1	-60	-41	-41	-11	<0
Variant H1 (limited)	-10	-453	-391	-224	-61	-2	-2	-83	-71	-41	-11	<0
Variant H1 (full)	-13	-517	-474	-224	-61	-3	-3	-95	-86	-41	-11	<0
Variant H2 (limited)	-10	-452	-390	-224	-61	-2	-2	-83	-71	-41	-11	<0
Variant H2 (full)	-13	-516	-474	-224	-61	-3	-3	-95	-86	-41	-11	<0
Variant H3 (limited)	-10	-453	-390	-225	-61	-2	-2	-83	-71	-41	-11	<0
Variant H3 (full)	-13	-518	-473	-226	-62	-3	-3	-95	-86	-41	-11	<0
Comparison to No Project												
Opening (2032) Project	-2	-6	-99	-50	-12	<0	<0	-1	-18	-9	-2	<0
Variant H1 [d]	-2	-7	-99	-51	-13	<0	<0	-1	-18	-9	-2	<0
Variant H2 [d]	-2	-6	-99	-50	-12	<0	<0	-1	-18	-9	-2	<0
Variant H3 [d]	-2	-7	-98	-52	-13	<0	<0	-1	-18	-9	-2	<0
Horizon (2040) Project	-1	-4	-75	-44	-11	<0	<0	-1	-14	-8	-2	<0
Variant H1 (limited) [d]	-1	-5	-75	-45	-11	<0	<0	-1	-14	-8	-2	<0
Variant H1 (full) [d]	-1	-5	-75	-45	-11	<0	<0	-1	-14	-8	-2	<0

Variant H2 (limited) [d]	-1	-4	-75	-44	-11	<0	<0	-1	-14	-8	-2	<0
Variant H2 (full) [d]	-1	-4	-75	-44	-11	<0	<0	-1	-14	-8	-2	<0
Variant H3 (limited) [d]	-1	-5	-74	-46	-11	<0	<0	-1	-13	-8	-2	<0
Variant H3 (full) [d]	-1	-5	-74	-46	-12	<0	<0	-1	-13	-8	-2	<0
Threshold [e]	*100*	*100*	*100*	*100*	*100*	*100*	*10*	*10*	*100*	*15*	*15*	*27*

AAQA = ambient air quality analysis; CO = carbon monoxide; ROG = reactive organic gases; lbs = pounds; NO_X = nitrogen oxides; PM10 = particulate matter that is 10 microns in diameter and smaller; PM2.5 = particulate matter that is 2.5 microns in diameter and smaller; SJVAPCD = San Joaquin Valley Air Pollution Control District; SO_2 = sulfur dioxide.

[a] The net emissions estimates for each condition reflect the difference between emissions generated by operations sources and reductions achieved by avoided automobile VMT and trips. Operations sources for each condition include the following:

- Existing: San Joaquins operation, station and maintenance facility operations, and connecting bus transit.
- No Project: San Joaquins operation, station and maintenance facility operations, bus bridge, and connecting bus transit.
- No Project Hydrogen Variant: San Joaquins operation (eight hydrogen powered trains under opening year conditions and the limited hydrogen deployment scenario for horizon year conditions; 12 hydrogen powered trains under the full hydrogen deployment scenario for horizon year conditions), offsite hydrogen fuel transport by on-road tube trailer, station and maintenance facility operations (same as no Project), bus bridge (same as no Project), and connecting bus transit (same as no Project).
- Project: San Joaquins operation (same as no Project), station and maintenance facility operations (same as no Project), and connecting bus transit.
- Variant H1: San Joaquins operation (same as No Project Hydrogen Variant), station and maintenance facility operations (same as Project), connecting bus transit (same as Project), and partial offsite hydrogen fuel transport by on-road tube trailer.
- Variant H2: Variant H1 sources and all offsite hydrogen fuel transport by on-road tube trailer.
- Variant H3: Variant H2 sources except offsite hydrogen fuel transport would be by freight rail.

Negative values represent a net reduction in emissions under the operating condition. Refer to Section 2 of this appendix for a detailed summary of emissions and reductions by source (e.g., locomotive operations).

[b] The no Project hydrogen variant assumes operation of hydrogen-powered San Joaquins locomotives in response to the state's ZE goals, which will facilitate transition of the statewide locomotive fleet to ZE units (see Section 3.3.2.2, *State*). For the purposes of analysis, hydrogen fuel for the no Project hydrogen variant was assumed to be sourced offsite using the same transport assumptions as Variant H2 (on-road tube trailer).

[c] Comparison provided for informational purposes only. Impact determination based on the net change in emissions relative to the no Project conditions. Refer to Section 3.3.4.2, *Thresholds of Significance*, for additional information.

[d] Emissions for the Project variants are compared to the no Project hydrogen variant.

[e] In developing the annual thresholds, SJVAPCD considered levels at which project emissions are cumulatively considerable. Consequently, exceedances of the project-level annual thresholds would be cumulatively considerable. The 100-pound-per-day threshold is a screening criterion to help determine whether increased emissions from a project would cause or contribute to a violation of CAAQS or NAAQS.

Table 2. Estimated Criteria Pollutant and Ozone Precursor Emissions from Project Operations and Project Variant Operations in the SFBAAB (expanded air quality study area) under a 12 Daily Roundtrip Service Schedule

Condition	Net Daily Emissions (lbs/day) [a]						Net Annual Emissions (tons/year) [a]					
	ROG	NO_X	CO	PM10	PM2.5	SO_2	ROG	NO_X	CO	PM10	PM2.5	SO_2
Existing (2022)	1	92	-14	-27	-6	<0	<1	17	-3	-5	-1	<0
Opening (2032) No Project	-8	46	-401	-278	-69	-2	-1	8	-73	-51	-13	<0
Hydrogen Variant [b]	-10	-3	-463	-278	-69	-2	-2	-1	-85	-51	-13	<0
Opening (2032) Project	-9	43	-451	-307	-76	-2	-2	8	-82	-56	-14	<0
Variant H1	-11	-6	-514	-307	-77	-2	-2	-1	-94	-56	-14	<0
Variant H2	-11	-6	-514	-307	-77	-2	-2	-1	-94	-56	-14	<0
Variant H3	-11	-6	-514	-307	-77	-2	-2	-1	-94	-56	-14	<0
Horizon (2040) No Project	-4	55	-290	-244	-60	-2	-1	10	-53	-45	-11	<0
Hydrogen Variant (limited) [b]	-6	6	-352	-245	-61	-2	-1	1	-64	-45	-11	<0
Hydrogen Variant (full) [b]	-7	-19	-384	-246	-61	-2	-1	-3	-70	-45	-11	<0
Horizon (2040) Project	-5	53	-333	-273	-67	-2	-1	10	-61	-50	-12	<0
Variant H1 (limited)	-7	4	-395	-273	-68	-2	-1	1	-72	-50	-12	<0
Variant H1 (full)	-8	-21	-427	-274	-68	-2	-1	-4	-78	-50	-12	<0
Variant H2 (limited)	-7	4	-395	-273	-68	-2	-1	1	-72	-50	-12	<0
Variant H2 (full)	-8	-21	-427	-274	-68	-2	-1	-4	-78	-50	-12	<0
Variant H3 (limited)	-7	4	-395	-273	-68	-2	-1	1	-72	-50	-12	<0
Variant H3 (full)	-8	-21	-427	-274	-68	-2	-1	-4	-78	-50	-12	<0
Comparison to Existing [c]												
Opening (2032) Project	-10	-49	-437	-280	-70	-2	-2	-9	-80	-51	-13	<0
Variant H1	-12	-98	-500	-281	-71	-2	-2	-18	-91	-51	-13	<0
Variant H2	-12	-98	-500	-281	-71	-2	-2	-18	-91	-51	-13	<0
Variant H3	-12	-98	-500	-281	-71	-2	-2	-18	-91	-51	-13	<0
Horizon (2040) Project	-6	-39	-319	-246	-62	-2	-1	-7	-58	-45	-11	<0
Variant H1 (limited)	-8	-88	-381	-247	-62	-2	-2	-16	-70	-45	-11	<0
Variant H1 (full)	-9	-113	-413	-247	-63	-2	-2	-21	-75	-45	-11	<0
Variant H2 (limited)	-8	-88	-381	-247	-62	-2	-2	-16	-70	-45	-11	<0
Variant H2 (full)	-9	-113	-413	-247	-63	-2	-2	-21	-75	-45	-11	<0
Variant H3 (limited)	-8	-88	-381	-247	-62	-2	-2	-16	-70	-45	-11	<0
Variant H3 (full)	-9	-113	-413	-247	-63	-2	-2	-21	-75	-45	-11	<0
Comparison to No Project												
Opening (2032) Project	-1	-3	-50	-29	-7	<0	<0	-1	-9	-5	-1	<0
Variant H1 [d]	-1	-3	-50	-29	-7	<0	<0	-1	-9	-5	-1	<0
Variant H2 [d]	-1	-3	-50	-29	-7	<0	<0	-1	-9	-5	-1	<0
Variant H3 [d]	-1	-3	-50	-29	-7	<0	<0	-1	-9	-5	-1	<0
Horizon (2040) Project	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Variant H1 (limited) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0

Variant H1 (full) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Variant H2 (limited) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Variant H2 (full) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Variant H3 (limited) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Variant H3 (full) [d]	-1	-2	-43	-28	-7	<0	<0	<0	-8	-5	-1	<0
Threshold [e]	*100*	*100*	*100*	*100*	*100*	*100*	*10*	*10*	*100*	*15*	*15*	*27*

CO = carbon monoxide; ROG = reactive organic gases; lbs = pounds; NO_X = nitrogen oxides; PM10 = particulate matter that is 10 microns in diameter and smaller; PM2.5 = particulate matter that is 2.5 microns in diameter and smaller; SO_2 = sulfur dioxide.

[a] The net emissions estimates for each condition reflect the difference in emissions from San Joaquins operations and reductions achieved by avoided automobile VMT and trips. The Project variants and the No Project Hydrogen Variant assume eight hydrogen powered trains under opening year conditions and the limited hydrogen deployment scenario for horizon year conditions, and 12 hydrogen powered trains under the full hydrogen deployment scenario for horizon year conditions. Negative values represent a net reduction in emissions under the operating condition. Refer to Section 2 of this appendix for a detailed summary of emissions and reductions by source (e.g., locomotive operations).

[b] The no Project hydrogen variant assumes operation of hydrogen-powered locomotives in response to the state's ZE goals, which will facilitate transition of the statewide locomotive fleet to ZE units (see Section 3.3.2.2, *State*). For the purposes of analysis, hydrogen fuel for the no Project hydrogen variant was assumed to be sourced offsite using the same transport assumptions as Variant H2 (on-road tube trailer).

[c] Comparison provided for informational purposes only. Impact determination based on the net change in emissions relative to the no Project conditions. Refer to Section 3.3.4.2, *Thresholds of Significance*, for additional information.

[d] Emissions for the Project variants are compared to the no Project hydrogen variant.

Table 3. Estimated Criteria Pollutant and Ozone Precursor Emissions from Project Operations and Project Variant Operations in the SVAB (expanded air quality study area) under a 12 Daily Roundtrip Service Schedule

Condition	Net Daily Emissions (lbs/day) [a]						Net Annual Emissions (tons/year) [a]					
	ROG	NO_X	CO	PM10	PM2.5	SO_2	ROG	NO_X	CO	PM10	PM2.5	SO_2
Existing (2022)	<1	16	-6	-5	-1	<0	<1	3	-1	-1	<0	<0
Opening (2032) No Project	<1	44	-21	-40	-9	<0	<1	8	-4	-7	-2	<0
Hydrogen Variant [b]	-1	12	-62	-40	-10	<0	<0	2	-11	-7	-2	<0
Opening (2032) Project	<1	43	-30	-45	-11	<0	<1	8	-6	-8	-2	<0
Variant H1	-1	11	-71	-45	-11	<0	<0	2	-13	-8	-2	<0
Variant H2	-1	11	-71	-45	-11	<0	<0	2	-13	-8	-2	<0
Variant H3	-1	11	-71	-45	-11	<0	<0	2	-13	-8	-2	<0
Horizon (2040) No Project	2	47	41	-11	-2	<1	<1	9	8	-2	<0	<1
Hydrogen Variant (limited) [b]	<1	15	<1	-11	-3	<0	<1	3	<1	-2	<0	<0
Hydrogen Variant (full) [b]	<0	-1	-21	-12	-3	<0	<0	<0	-4	-2	-1	<0
Horizon (2040) Project	2	47	38	-13	-3	<1	<1	9	7	-2	<0	<1
Variant H1 (limited)	<1	15	-3	-13	-3	<0	<1	3	-1	-2	-1	<0
Variant H1 (full)	<0	-1	-24	-14	-3	<0	<0	0	-4	-3	-1	<0
Variant H2 (limited)	<1	15	-3	-13	-3	<0	<1	3	-1	-2	-1	<0
Variant H2 (full)	<0	-1	-24	-14	-3	<0	<0	0	-4	-3	-1	<0
Variant H3 (limited)	<1	15	-3	-13	-3	<0	<1	3	-1	-2	-1	<0
Variant H3 (full)	<0	-1	-24	-14	-3	<0	<0	0	-4	-3	-1	<0
Comparison to Existing [c]												
Opening (2032) Project	<0	28	-25	-40	-10	<0	<0	5	-4	-7	-2	<0
Variant H1	-1	-4	-66	-40	-10	<0	<0	-1	-12	-7	-2	<0
Variant H2	-1	-4	-66	-40	-10	<0	<0	-1	-12	-7	-2	<0
Variant H3	-1	-4	-66	-40	-10	<0	<0	-1	-12	-7	-2	<0
Horizon (2040) Project	1	32	43	-8	-2	<1	<1	6	8	-2	<0	<1
Variant H1 (limited)	<1	<0	3	-9	-2	<0	<1	<0	<1	-2	<0	<0
Variant H1 (full)	-1	-17	-18	-9	-2	<0	<0	-3	-3	-2	<0	<0
Variant H2 (limited)	<1	<0	3	-9	-2	<0	<1	<0	<1	-2	<0	<0
Variant H2 (full)	-1	-17	-18	-9	-2	<0	<0	-3	-3	-2	<0	<0
Variant H3 (limited)	<1	<0	3	-9	-2	<0	<1	<0	<1	-2	<0	<0
Variant H3 (full)	-1	-17	-18	-9	-2	<0	<0	-3	-3	-2	<0	<0
Comparison to No Project												
Opening (2032) Project	<0	<0	-9	-5	-1	<0	<0	<0	-2	-1	<0	<0
Variant H1 [d]	<0	<0	-9	-5	-1	<0	<0	<0	-2	-1	<0	<0
Variant H2 [d]	<0	<0	-9	-5	-1	<0	<0	<0	-2	-1	<0	<0
Variant H3 [d]	<0	<0	-9	-5	-1	<0	<0	<0	-2	-1	<0	<0
Horizon (2040) Project	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Variant H1 (limited) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0

Variant H1 (full) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Variant H2 (limited) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Variant H2 (full) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Variant H3 (limited) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Variant H3 (full) [d]	<0	<0	-4	-2	-1	<0	<0	<0	-1	<0	<0	<0
Threshold [e]	*100*	*100*	*100*	*100*	*100*	*100*	*10*	*10*	*100*	*15*	*15*	*27*

CO = carbon monoxide; ROG = reactive organic gases; lbs = pounds; NO_X = nitrogen oxides; PM10 = particulate matter that is 10 microns in diameter and smaller; PM2.5 = particulate matter that is 2.5 microns in diameter and smaller; SO_2 = sulfur dioxide.

[a] The net emissions estimates for each condition reflect the difference in emissions from San Joaquins operations and reductions achieved by avoided automobile VMT and trips. The Project variants and the No Project Hydrogen Variant assume eight hydrogen powered trains under opening year conditions and the limited hydrogen deployment scenario for horizon year conditions, and 12 hydrogen powered trains under the full hydrogen deployment scenario for horizon year conditions. Negative values represent a net reduction in emissions under the operating condition. Refer to Section 2 of this appendix for a detailed summary of emissions and reductions by source (e.g., locomotive operations).

[b] The no Project hydrogen variant assumes operation of hydrogen-powered locomotives in response to the state's ZE goals, which will facilitate transition of the statewide locomotive fleet to ZE units (see Section 3.3.2.2, *State*). For the purposes of analysis, hydrogen fuel for the no Project hydrogen variant was assumed to be sourced offsite using the same transport assumptions as Variant H2 (on-road tube trailer).

[c] Comparison provided for informational purposes only. Impact determination based on the net change in emissions relative to the no Project conditions. Refer to Section 3.3.4.2, *Thresholds of Significance*, for additional information.

[d] Emissions for the Project variants are compared to the no Project hydrogen variant.

Table 4. Estimated Criteria Pollutant and Ozone Precursor Emissions from Offsite Fuel Transport in Southern California under the Project Variants under a 12 Daily Roundtrip Service Schedule

Condition [a]	Daily Emissions (lbs/day)						Annual Emissions (tons/year)					
	ROG	NO_X	CO	PM10	PM2.5	SO_2	ROG	NO_X	CO	PM10	PM2.5	SO_2
Opening (2032) Variant H1 [b]	<1	2	1	1	<1	<1	<1	<1	<1	<1	<1	<1
Opening (2032) Variant H2 [b]	<1	3	1	1	<1	<1	<1	1	<1	<1	<1	<1
Opening (2032) Variant H3 [c]	<1	2	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Horizon (2040) Variant H1 (limited) [b]	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Horizon (2040) Variant H1 (full) [b]	<1	2	1	1	<1	<1	<1	<1	<1	<1	<1	<1
Horizon (2040) Variant H2 (limited) [b]	<1	2	1	1	<1	<1	<1	<1	<1	<1	<1	<1
Horizon (2040) Variant H2 (full) [b]	<1	3	1	2	1	<1	<1	1	<1	<1	<1	<1
Horizon (2040) Variant H3 (limited) [c]	<1	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Horizon (2040) Variant H3 (full) [c]	<1	2	2	<1	<1	<1	<1	<1	<1	<1	<1	<1

CO = carbon monoxide; ROG = reactive organic gases; lbs = pounds; NO_X = nitrogen oxides; PM10 = particulate matter that is 10 microns in diameter and smaller; PM2.5 = particulate matter that is 2.5 microns in diameter and smaller; SO_2 = sulfur dioxide.

[a] Variant H1 would use a combination of hydrogen produced on-site and sourced from off-site locations. Variants H2 and H3 include fueling all locomotives with offsite hydrogen.

[b] Emissions were quantified for a worst-case transport condition that assumes all offsite hydrogen fuel would be transported from Palm Springs, California by onroad truck. Emissions were assigned to the Salton Sea Air Basin (SSAB) and South Coast Air Basin (SCAB) based on the percentage of roadway miles (assuming a direct travel route) in each air basin. The table presents the sum of emissions for the SSAB and SCAB.

[c] Emissions were quantified for a worst-case transport condition that assumes all offsite hydrogen fuel would be transported from Palm Springs, California by freight rail. Emissions were assigned to the SSAB, SCAB, and Mojave Desert Air Basin based on the percentage of freight rail miles in each air basin. The table presents the sum of emissions for the SSAB, SCAB, and Mojave Desert Air Basin.

Table 5. Estimated Total Net GHG Emissions from Project Operations and Project Variant Operations under a 12 Daily Roundtrip Service Schedule (metric tons per year) [a]

Condition	CO_2	CH_4	N_2O	CO_2e
Existing (2022)	262	2	<1	408
Opening (2032) No Project	-72,517	2	-1	-72,658
Hydrogen Variant [b]	-87,931	<1	-1	-88,161
Opening (2032) Project	-84,099	2	-1	-84,298
Variant H1	-100,083	<1	-1	-100,397
Variant H2	-99,514	<1	-1	-99,801
Variant H3	-100,871	<1	-1	-101,230
Horizon (2040) No Project	-44,778	2	<0	-44,754
Hydrogen Variant (limited) [b]	-60,665	1	<0	-60,752
Hydrogen Variant (full) [b]	-68,808	<1	<0	-68,953
Horizon (2040) Project	-54,186	2	<0	-54,205
Variant H1 (limited)	-70,465	1	-1	-70,614
Variant H1 (full)	-78,608	<0	-1	-78,814
Variant H2 (limited)	-70,073	1	<0	-70,203
Variant H2 (full)	-78,216	<0	-1	-78,404
Variant H3 (limited)	-70,957	1	-1	-71,138
Variant H3 (full)	-79,543	<0	-1	-79,806
Comparison to Existing [c]				
Opening (2032) Project	-84,361	<0	-1	-84,706
Variant H1	-100,345	-2	-1	-100,805
Variant H2	-99,776	-2	-1	-100,209
Variant H3	-101,133	-2	-2	-101,638
Horizon (2040) Project	-54,448	<1	-1	-54,613
Variant H1 (limited)	-70,727	-1	-1	-71,021
Variant H1 (full)	-78,870	-2	-1	-79,222
Variant H2 (limited)	-70,335	-1	-1	-70,611
Variant H2 (full)	-78,478	-2	-1	-78,812
Variant H3 (limited)	-71,220	-1	-1	-71,546
Variant H3 (full)	-79,805	-2	-1	-80,214
Comparison to No Project				
Opening (2032) Project	-11,582	<0	<0	-11,639
Variant H1 [d]	-12,151	<0	<0	-12,235
Variant H2 [d]	-11,582	<0	<0	-11,639
Variant H3 [d]	-12,939	<0	<0	-13,069
Horizon (2040) Project	-9,408	<0	<0	-9,451
Variant H1 (limited) [d]	-9,800	<0	<0	-9,861
Variant H1 (full) [d]	-9,800	<0	<0	-9,861
Variant H2 (limited) [d]	-9,408	<0	<0	-9,451
Variant H2 (full) [d]	-9,408	<0	<0	-9,451
Variant H3 (limited) [d]	-10,293	<0	<0	-10,386
Variant H3 (full) [d]	-10,735	<0	<0	-10,853

CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.

[a] The net emissions estimates for each condition reflect the difference between emissions generated by operations sources and reductions achieved by avoided automobile VMT and trips. Operations sources for each condition include the following:

- Existing: San Joaquins operation, station and maintenance facility operations, and connecting bus transit.
- No Project: San Joaquins operation, station and maintenance facility operations, bus bridge, and connecting bus transit.
- No Project Hydrogen Variant: San Joaquins operation (eight hydrogen powered trains under opening year conditions and the limited hydrogen deployment scenario for horizon year conditions; 12 hydrogen powered trains under the full hydrogen deployment scenario for horizon year conditions), offsite hydrogen fuel transport by on-road tube trailer, station and maintenance facility operations (same as no Project), bus bridge (same as no Project), and connecting bus transit (same as no Project).

- Project: San Joaquins operation (same as no Project), station and maintenance facility operations, and connecting bus transit.
- Variant H1: San Joaquins operation (same as No Project Hydrogen Variant), station and maintenance facility operations, connecting bus transit (same as Project), and partial offsite hydrogen fuel transport by on-road tube trailer.
- Variant H2: San Joaquins operation (same as Variant H1), station and maintenance facility operations (same as Project), connecting bus transit (same as Project), and all offsite hydrogen fuel transport by on-road tube trailer.
- Variant H3: Variant H2 sources except offsite hydrogen fuel transport would be by freight rail.

Negative values represent a net reduction in emissions under the operating condition. Refer to Section 2 of this appendix for a detailed summary of emissions and reductions by source (e.g., San Joaquins operations) and geography (e.g., SJVAB).

[b] The no Project hydrogen variant assumes operation of hydrogen-powered San Joaquins locomotives in response to the state's ZE goals, which will facilitate transition of the statewide locomotive fleet to ZE units (see Section 3.3.2.2, *State*). For the purposes of analysis, hydrogen fuel for the no Project hydrogen variant was assumed to be sourced offsite using the same transport assumptions as Variant H2 (on-road tube trailer).

[c] Comparison provided for informational purposes only. Impact determination based on the net change in emissions relative to the no Project conditions. Refer to Section 3.3.4.2, *Thresholds of Significance*, for additional information.

[d] Emissions for the Project variants are compared to the no Project hydrogen variant.