PUBLIC REVIEW VERSION

Appendices

Moulton Niguel Water District Advanced Water Treatment Facility Salinity Management System Project

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Air Quality and Greenhouse Gas Emissions
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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MNWD Advanced Water Treatment Facility Salinity Mgmt System Project
Construction Start Date	3/7/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	13.6
Location	33.53971387194231, -117.70362427871379
County	Orange
City	Laguna Niguel
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6014
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.26

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
General Light Industry	15.0	1000sqft	0.34	15,000	0.00	0.00	—	—

Parking Lot	49.1	1000sqft	1.13	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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.40	12.2	12.7	0.02	0.53	2.62	3.15	0.49	1.33	1.82	2,470	0.10	0.03	0.37	2,482
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.38	12.2	12.6	0.02	0.53	2.66	3.17	0.49	1.34	1.82	2,468	0.11	0.06	0.03	2,484
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.61	1.68	1.99	< 0.005	0.07	0.25	0.32	0.06	0.12	0.18	417	0.02	0.01	0.09	420
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.31	0.36	< 0.005	0.01	0.05	0.06	0.01	0.02	0.03	69.0	< 0.005	< 0.005	0.01	69.5

2.2. Construction Emissions by Year, Unmitigated

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

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

2025	1.40	12.2	12.7	0.02	0.53	2.62	3.15	0.49	1.33	1.82	2,470	0.10	0.03	0.37	2,482
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	9.38	12.2	12.6	0.02	0.53	2.66	3.17	0.49	1.34	1.82	2,468	0.11	0.06	0.03	2,484
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.61	1.68	1.99	< 0.005	0.07	0.25	0.32	0.06	0.12	0.18	417	0.02	0.01	0.09	420
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.11	0.31	0.36	< 0.005	0.01	0.05	0.06	0.01	0.02	0.03	69.0	< 0.005	< 0.005	0.01	69.5

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.03	0.91	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,013	1.41	0.05	4.16	7,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,008	1.41	0.05	3.91	7,062
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	0.03	0.69	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,010	1.41	0.05	4.01	7,065
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.01	0.13	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1,161	0.23	0.01	0.66	1,170

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Area	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.50	0.03	0.91	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,013	1.41	0.05	4.16	7,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Area	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.39	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,008	1.41	0.05	3.91	7,062
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.25	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	70.4	< 0.005	< 0.005	0.11	71.4
Area	0.44	< 0.005	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.84	< 0.005	< 0.005	—	1.84
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90

Total	0.47	0.03	0.69	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,010	1.41	0.05	4.01	7,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Area	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,147	0.06	0.01	—	1,151
Water	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Waste	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	0.08	0.01	0.13	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1,161	0.23	0.01	0.66	1,170

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.3	11.4	0.02	0.50	—	0.50	0.46	—	0.46	2,212	0.09	0.02	—	2,220
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.31	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	60.6	< 0.005	< 0.005	—	60.8
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0	< 0.005	< 0.005	—	10.1
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	50.5	< 0.005	< 0.005	0.01	51.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
Hauling	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	140	0.01	0.02	0.01	147
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.40	< 0.005	< 0.005	< 0.005	1.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.75	< 0.005	< 0.005	< 0.005	1.82
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.82	< 0.005	< 0.005	< 0.005	4.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.23	< 0.005	< 0.005	< 0.005	0.24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.29	< 0.005	< 0.005	< 0.005	0.30

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.63	< 0.005	< 0.005	< 0.005	0.67

3.3. Landscaping (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.96	3.41	< 0.005	0.07	—	0.07	0.06	—	0.06	535	0.02	< 0.005	—	537
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	30.8	< 0.005	< 0.005	—	30.9
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.10	< 0.005	< 0.005	—	5.12
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	50.5	< 0.005	< 0.005	0.01	51.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.95	< 0.005	< 0.005	< 0.005	2.99
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.67	< 0.005	< 0.005	< 0.005	3.83
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.49	< 0.005	< 0.005	< 0.005	0.49
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.61	< 0.005	< 0.005	< 0.005	0.63
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

3.5. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362

Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.66	0.68	< 0.005	0.03	—	0.03	0.03	—	0.03	129	0.01	< 0.005	—	129
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.12	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	21.4	< 0.005	< 0.005	—	21.4
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	53.1	< 0.005	< 0.005	0.20	53.9
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	0.17	66.7
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	50.5	< 0.005	< 0.005	0.01	51.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.81	< 0.005	< 0.005	< 0.005	2.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.49	< 0.005	< 0.005	< 0.005	3.65
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.46	< 0.005	< 0.005	< 0.005	0.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58	< 0.005	< 0.005	< 0.005	0.60
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

3.7. Treatment System Install (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.20	2.08	0.01	0.09	—	0.09	0.09	—	0.09	571	0.02	< 0.005	—	573

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	67.3	< 0.005	< 0.005	—	67.5
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.1	< 0.005	< 0.005	—	11.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	101	< 0.005	< 0.005	0.01	102
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	12.1	< 0.005	< 0.005	0.02	12.2
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.51	< 0.005	< 0.005	0.01	7.84
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.00	< 0.005	< 0.005	< 0.005	2.02
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.24	< 0.005	< 0.005	< 0.005	1.30
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

3.9. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.63	4.97	0.01	0.16	—	0.16	0.15	—	0.15	771	0.03	0.01	—	773
Paving	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	25.3	< 0.005	< 0.005	—	25.4
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.19	< 0.005	< 0.005	—	4.21
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	50.5	< 0.005	< 0.005	0.01	51.1
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
Hauling	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	140	0.01	0.02	0.01	147
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.68	< 0.005	< 0.005	< 0.005	1.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.10	< 0.005	< 0.005	< 0.005	2.19
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.59	< 0.005	< 0.005	< 0.005	4.82
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.35	< 0.005	< 0.005	< 0.005	0.36
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.76	< 0.005	< 0.005	< 0.005	0.80

3.11. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	134	0.01	< 0.005	—	134
Architectural Coatings	8.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.22	< 0.005	< 0.005	—	6.24
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.03	< 0.005	< 0.005	—	1.03
Architectural Coatings	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	25.3	< 0.005	< 0.005	< 0.005	25.6
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	< 0.005	66.5
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.19	< 0.005	< 0.005	< 0.005	1.21
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.97	< 0.005	< 0.005	< 0.005	3.10
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.20	< 0.005	< 0.005	< 0.005	0.20
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.49	< 0.005	< 0.005	< 0.005	0.51
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

3.13. Pipe Installation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.10	1.91	< 0.005	0.04	—	0.04	0.04	—	0.04	290	0.01	< 0.005	—	291
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.6	< 0.005	< 0.005	—	32.7
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.40	< 0.005	< 0.005	—	5.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.22	0.00	0.00	0.05	0.05	0.00	0.01	0.01	53.1	< 0.005	< 0.005	0.20	53.9
Vendor	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	63.8	< 0.005	0.01	0.17	66.7
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.75	< 0.005	< 0.005	0.01	5.83
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.16	< 0.005	< 0.005	0.01	7.48
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95	< 0.005	< 0.005	< 0.005	0.97
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.19	< 0.005	< 0.005	< 0.005	1.24
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5

Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Parking Lot	0.00	0.00	0.00	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	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	6,858	0.38	0.05	—	6,882
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	6,927	0.39	0.05	—	6,951

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	6,858	0.38	0.05	—	6,882
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	6,927	0.39	0.05	—	6,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	1,135	0.06	0.01	—	1,139
Parking Lot	—	—	—	—	—	—	—	—	—	—	11.5	< 0.005	< 0.005	—	11.5
Total	—	—	—	—	—	—	—	—	—	—	1,147	0.06	0.01	—	1,151

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Total	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Total	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/7/2025	3/20/2025	5.00	10.0	Site mobilization, vegetation removal, clearing, and grubbing
Landscaping	Site Preparation	10/22/2025	11/19/2025	5.00	21.0	—
Grading	Grading	3/21/2025	4/17/2025	5.00	20.0	Site earthwork
Treatment System Install	Building Construction	10/22/2025	12/19/2025	5.00	43.0	—
Paving	Paving	11/20/2025	12/5/2025	5.00	12.0	—
Architectural Coating	Architectural Coating	12/9/2025	12/31/2025	5.00	17.0	—
Pipe Installation	Trenching	6/2/2025	7/28/2025	5.00	41.0	—

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
Site Preparation	Graders	Diesel	Average	0.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Landscaping	Graders	Diesel	Average	0.00	8.00	148	0.41
Landscaping	Rubber Tired Dozers	Diesel	Average	0.00	7.00	367	0.40

Landscaping	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	0.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Treatment System Install	Cranes	Diesel	Average	1.00	4.00	367	0.29
Treatment System Install	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Treatment System Install	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Treatment System Install	Tractors/Loaders/Backhoes	Diesel	Average	0.00	6.00	84.0	0.37
Treatment System Install	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	4.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Skid Steer Loaders	Diesel	Average	1.00	4.00	71.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Pipe Installation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	4.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	10.2	HHDT,MHDT
Site Preparation	Hauling	2.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	4.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Landscaping	—	—	—	—
Landscaping	Worker	4.00	18.5	LDA,LDT1,LDT2
Landscaping	Vendor	2.00	10.2	HHDT,MHDT
Landscaping	Hauling	0.00	20.0	HHDT
Landscaping	Onsite truck	—	—	HHDT
Treatment System Install	—	—	—	—
Treatment System Install	Worker	8.00	18.5	LDA,LDT1,LDT2
Treatment System Install	Vendor	2.00	10.2	HHDT,MHDT
Treatment System Install	Hauling	0.00	20.0	HHDT
Treatment System Install	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	4.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	2.00	10.2	HHDT,MHDT
Paving	Hauling	2.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	2.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Pipe Installation	—	—	—	—
Pipe Installation	Worker	4.00	18.5	LDA,LDT1,LDT2
Pipe Installation	Vendor	2.00	10.2	HHDT,MHDT
Pipe Installation	Hauling	0.00	20.0	HHDT
Pipe Installation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	22,500	7,500	2,944

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 (sq. ft.)	Acres Paved (acres)
Site Preparation	—	202	5.00	0.00	—
Landscaping	—	—	0.00	0.00	—

Grading	—	0.00	10.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.13

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Parking Lot	1.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	7.50	7.50	7.50	2,738	95.7	95.7	95.7	34,924
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	22,500	7,500	2,944

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	4,250,000	589	0.0330	0.0040	0.00
Parking Lot	42,977	589	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)
General Light Industry	65,000	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	18.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.07	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	10.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.7
AQ-PM	41.5
AQ-DPM	16.9
Drinking Water	5.91
Lead Risk Housing	4.79
Pesticides	0.00
Toxic Releases	38.5
Traffic	49.2
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	30.2
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	8.40
Cardio-vascular	22.0
Low Birth Weights	2.30
Socioeconomic Factor Indicators	—
Education	7.40
Housing	44.5
Linguistic	44.8
Poverty	16.6
Unemployment	2.29

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	99.34556653
Employed	66.62389324
Median HI	97.42076222
Education	—
Bachelor's or higher	92.7242397
High school enrollment	100
Preschool enrollment	76.88951623
Transportation	—

Auto Access	87.47593995
Active commuting	4.914667009
Social	—
2-parent households	98.6141409
Voting	77.83908636
Neighborhood	—
Alcohol availability	92.13396638
Park access	81.35506224
Retail density	69.53676376
Supermarket access	39.38149621
Tree canopy	79.39176184
Housing	—
Homeownership	99.69203131
Housing habitability	97.0101373
Low-inc homeowner severe housing cost burden	65.10971385
Low-inc renter severe housing cost burden	90.56845887
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	96.29154369
Arthritis	0.0
Asthma ER Admissions	88.2
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	73.7

Cognitively Disabled	74.6
Physically Disabled	84.3
Heart Attack ER Admissions	76.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	20.9
Elderly	22.1
English Speaking	58.2
Foreign-born	43.2
Outdoor Workers	92.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	82.0
Traffic Density	22.0
Traffic Access	23.0
Other Indices	—
Hardship	4.2
Other Decision Support	—

2016 Voting	86.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	4.00
Healthy Places Index Score for Project Location (b)	97.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	—
Construction: Construction Phases	Provided by MNWD
Construction: Off-Road Equipment	provided by MNWD
Construction: Trips and VMT	Provided by Applicant
Operations: Vehicle Data	provided by applicant
Operations: Water and Waste Water	water from MNWD
Operations: Energy Use	provided by MNWD engineer. no natural gas.

MNWD Advanced Water Treatment Facility Salinity Mgmt System Project- LST run Detailed 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	MNWD Advanced Water Treatment Facility Salinity Mgmt System Project- LST run
Construction Start Date	3/7/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	13.6
Location	33.53971387194231, -117.70362427871379
County	Orange
City	Laguna Niguel
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6014
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.26

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
General Light Industry	15.0	1000sqft	0.34	15,000	0.00	0.00	—	—

Parking Lot	49.1	1000sqft	1.13	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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.38	12.1	12.4	0.02	0.53	2.56	3.08	0.49	1.31	1.80	2,354	0.10	0.02	0.00	2,362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.34	12.1	12.4	0.02	0.53	2.56	3.08	0.49	1.31	1.80	2,354	0.10	0.02	0.00	2,362
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	1.63	1.86	< 0.005	0.07	0.21	0.28	0.06	0.11	0.17	352	0.01	< 0.005	0.00	353
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.30	0.34	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	58.3	< 0.005	< 0.005	0.00	58.5

2.2. Construction Emissions by Year, Unmitigated

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

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

2025	1.38	12.1	12.4	0.02	0.53	2.56	3.08	0.49	1.31	1.80	2,354	0.10	0.02	0.00	2,362
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	9.34	12.1	12.4	0.02	0.53	2.56	3.08	0.49	1.31	1.80	2,354	0.10	0.02	0.00	2,362
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.60	1.63	1.86	< 0.005	0.07	0.21	0.28	0.06	0.11	0.17	352	0.01	< 0.005	0.00	353
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.11	0.30	0.34	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	58.3	< 0.005	< 0.005	0.00	58.5

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50	0.03	0.91	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,013	1.41	0.05	4.16	7,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.39	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,008	1.41	0.05	3.91	7,062
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	0.03	0.69	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,010	1.41	0.05	4.01	7,065
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.01	0.13	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1,161	0.23	0.01	0.66	1,170

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Area	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.50	0.03	0.91	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,013	1.41	0.05	4.16	7,068
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Area	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.39	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,008	1.41	0.05	3.91	7,062
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.25	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	70.4	< 0.005	< 0.005	0.11	71.4
Area	0.44	< 0.005	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.84	< 0.005	< 0.005	—	1.84
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	6,927	0.39	0.05	—	6,951
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90

Total	0.47	0.03	0.69	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	7,010	1.41	0.05	4.01	7,065
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Area	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	1,147	0.06	0.01	—	1,151
Water	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Waste	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	0.08	0.01	0.13	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	1,161	0.23	0.01	0.66	1,170

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.3	11.4	0.02	0.50	—	0.50	0.46	—	0.46	2,212	0.09	0.02	—	2,220
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.31	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	60.6	< 0.005	< 0.005	—	60.8
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0	< 0.005	< 0.005	—	10.1
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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

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

3.3. Landscaping (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.96	3.41	< 0.005	0.07	—	0.07	0.06	—	0.06	535	0.02	< 0.005	—	537
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	30.8	< 0.005	< 0.005	—	30.9
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.10	< 0.005	< 0.005	—	5.12
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

3.5. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362

Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.66	0.68	< 0.005	0.03	—	0.03	0.03	—	0.03	129	0.01	< 0.005	—	129
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.12	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	21.4	< 0.005	< 0.005	—	21.4
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

3.7. Treatment System Install (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.20	2.08	0.01	0.09	—	0.09	0.09	—	0.09	571	0.02	< 0.005	—	573

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	67.3	< 0.005	< 0.005	—	67.5
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.1	< 0.005	< 0.005	—	11.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

3.9. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.63	4.97	0.01	0.16	—	0.16	0.15	—	0.15	771	0.03	0.01	—	773
Paving	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	25.3	< 0.005	< 0.005	—	25.4
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.19	< 0.005	< 0.005	—	4.21
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

3.11. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	134	0.01	< 0.005	—	134
Architectural Coatings	8.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.22	< 0.005	< 0.005	—	6.24
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.03	< 0.005	< 0.005	—	1.03
Architectural Coatings	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

3.13. Pipe Installation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.10	1.91	< 0.005	0.04	—	0.04	0.04	—	0.04	290	0.01	< 0.005	—	291
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.6	< 0.005	< 0.005	—	32.7
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.40	< 0.005	< 0.005	—	5.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5

Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Parking Lot	0.00	0.00	0.00	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	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	6,858	0.38	0.05	—	6,882
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	6,927	0.39	0.05	—	6,951

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	6,858	0.38	0.05	—	6,882
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	6,927	0.39	0.05	—	6,951
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	1,135	0.06	0.01	—	1,139
Parking Lot	—	—	—	—	—	—	—	—	—	—	11.5	< 0.005	< 0.005	—	11.5
Total	—	—	—	—	—	—	—	—	—	—	1,147	0.06	0.01	—	1,151

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	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

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Total	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Total	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/7/2025	3/20/2025	5.00	10.0	Site mobilization, vegetation removal, clearing, and grubbing
Landscaping	Site Preparation	10/22/2025	11/19/2025	5.00	21.0	—
Grading	Grading	3/21/2025	4/17/2025	5.00	20.0	Site earthwork
Treatment System Install	Building Construction	10/22/2025	12/19/2025	5.00	43.0	—
Paving	Paving	11/20/2025	12/5/2025	5.00	12.0	—
Architectural Coating	Architectural Coating	12/9/2025	12/31/2025	5.00	17.0	—
Pipe Installation	Trenching	6/2/2025	7/28/2025	5.00	41.0	—

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
Site Preparation	Graders	Diesel	Average	0.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Landscaping	Graders	Diesel	Average	0.00	8.00	148	0.41
Landscaping	Rubber Tired Dozers	Diesel	Average	0.00	7.00	367	0.40

Landscaping	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	0.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Treatment System Install	Cranes	Diesel	Average	1.00	4.00	367	0.29
Treatment System Install	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Treatment System Install	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Treatment System Install	Tractors/Loaders/Backhoes	Diesel	Average	0.00	6.00	84.0	0.37
Treatment System Install	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	4.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Skid Steer Loaders	Diesel	Average	1.00	4.00	71.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Pipe Installation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Landscaping	—	—	—	—
Landscaping	Worker	0.00	18.5	LDA,LDT1,LDT2
Landscaping	Vendor	0.00	10.2	HHDT,MHDT
Landscaping	Hauling	0.00	20.0	HHDT
Landscaping	Onsite truck	—	—	HHDT
Treatment System Install	—	—	—	—
Treatment System Install	Worker	0.00	18.5	LDA,LDT1,LDT2
Treatment System Install	Vendor	0.00	10.2	HHDT,MHDT
Treatment System Install	Hauling	0.00	20.0	HHDT
Treatment System Install	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Pipe Installation	—	—	—	—
Pipe Installation	Worker	0.00	18.5	LDA,LDT1,LDT2
Pipe Installation	Vendor	0.00	10.2	HHDT,MHDT
Pipe Installation	Hauling	0.00	20.0	HHDT
Pipe Installation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	22,500	7,500	2,944

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 (sq. ft.)	Acres Paved (acres)
Site Preparation	—	202	5.00	0.00	—
Landscaping	—	—	0.00	0.00	—

Grading	—	0.00	10.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.13

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Parking Lot	1.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	7.50	7.50	7.50	2,738	95.7	95.7	95.7	34,924
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	22,500	7,500	2,944

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	4,250,000	589	0.0330	0.0040	0.00
Parking Lot	42,977	589	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)
General Light Industry	65,000	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	18.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.07	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	10.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.7
AQ-PM	41.5
AQ-DPM	16.9
Drinking Water	5.91
Lead Risk Housing	4.79
Pesticides	0.00
Toxic Releases	38.5
Traffic	49.2
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	30.2
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	8.40
Cardio-vascular	22.0
Low Birth Weights	2.30
Socioeconomic Factor Indicators	—
Education	7.40
Housing	44.5
Linguistic	44.8
Poverty	16.6
Unemployment	2.29

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	99.34556653
Employed	66.62389324
Median HI	97.42076222
Education	—
Bachelor's or higher	92.7242397
High school enrollment	100
Preschool enrollment	76.88951623
Transportation	—

Auto Access	87.47593995
Active commuting	4.914667009
Social	—
2-parent households	98.6141409
Voting	77.83908636
Neighborhood	—
Alcohol availability	92.13396638
Park access	81.35506224
Retail density	69.53676376
Supermarket access	39.38149621
Tree canopy	79.39176184
Housing	—
Homeownership	99.69203131
Housing habitability	97.0101373
Low-inc homeowner severe housing cost burden	65.10971385
Low-inc renter severe housing cost burden	90.56845887
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	96.29154369
Arthritis	0.0
Asthma ER Admissions	88.2
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	73.7

Cognitively Disabled	74.6
Physically Disabled	84.3
Heart Attack ER Admissions	76.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	20.9
Elderly	22.1
English Speaking	58.2
Foreign-born	43.2
Outdoor Workers	92.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	82.0
Traffic Density	22.0
Traffic Access	23.0
Other Indices	—
Hardship	4.2
Other Decision Support	—

2016 Voting	86.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	4.00
Healthy Places Index Score for Project Location (b)	97.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Provided by MNWD
Construction: Off-Road Equipment	provided by MNWD
Construction: Trips and VMT	Provided by Applicant- LST Run
Operations: Vehicle Data	provided by applicant
Operations: Water and Waste Water	water from MNWD
Operations: Energy Use	provided by MNWD engineer. no natural gas.

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Construction Health Risk Assessment

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MNWD Advanced Water Treatment Facility Salinity Mgmt System Project- Con HRA Run Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	MNWD Advanced Water Treatment Facility Salinity Mgmt System Project- Con HRA Run
Construction Start Date	3/7/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	13.6
Location	33.53971387194231, -117.70362427871379
County	Orange
City	Laguna Niguel
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	6014
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	Southern California Gas
App Version	2022.1.1.26

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
General Light Industry	15.0	1000sqft	0.34	15,000	0.00	0.00	—	—

Parking Lot	49.1	1000sqft	1.13	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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.38	12.1	12.4	0.02	0.53	2.56	3.09	0.49	1.31	1.80	2,357	0.10	0.02	< 0.005	2,365
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.34	12.1	12.4	0.02	0.53	2.56	3.09	0.49	1.31	1.80	2,357	0.10	0.02	< 0.005	2,365
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.60	1.64	1.87	< 0.005	0.07	0.21	0.28	0.06	0.11	0.17	354	0.01	< 0.005	< 0.005	355
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11	0.30	0.34	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	58.6	< 0.005	< 0.005	< 0.005	58.8

2.2. Construction Emissions by Year, Unmitigated

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

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

2025	1.38	12.1	12.4	0.02	0.53	2.56	3.09	0.49	1.31	1.80	2,357	0.10	0.02	< 0.005	2,365
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	9.34	12.1	12.4	0.02	0.53	2.56	3.09	0.49	1.31	1.80	2,357	0.10	0.02	< 0.005	2,365
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.60	1.64	1.87	< 0.005	0.07	0.21	0.28	0.06	0.11	0.17	354	0.01	< 0.005	< 0.005	355
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.11	0.30	0.34	< 0.005	0.01	0.04	0.05	0.01	0.02	0.03	58.6	< 0.005	< 0.005	< 0.005	58.8

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.51	0.19	1.05	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	567	1.05	0.01	4.16	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.40	0.19	0.38	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	561	1.05	0.01	3.91	593
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.47	0.19	0.83	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	564	1.05	0.01	4.01	596
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.09	0.03	0.15	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	93.3	0.17	< 0.005	0.66	98.6

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Area	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Energy	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	481	0.03	< 0.005	—	482
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.51	0.19	1.05	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	567	1.05	0.01	4.16	599
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Area	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	481	0.03	< 0.005	—	482
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	0.40	0.19	0.38	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	561	1.05	0.01	3.91	593
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.03	0.02	0.25	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	70.4	< 0.005	< 0.005	0.11	71.4
Area	0.44	< 0.005	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.84	< 0.005	< 0.005	—	1.84
Energy	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	481	0.03	< 0.005	—	482
Water	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Waste	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90

Total	0.47	0.19	0.83	< 0.005	0.01	0.07	0.08	0.01	0.02	0.03	564	1.05	0.01	4.01	596
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Area	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Energy	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.6	0.01	< 0.005	—	79.8
Water	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Waste	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	0.09	0.03	0.15	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.01	93.3	0.17	< 0.005	0.66	98.6

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	11.3	11.4	0.02	0.50	—	0.50	0.46	—	0.46	2,212	0.09	0.02	—	2,220
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.31	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	60.6	< 0.005	< 0.005	—	60.8
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0	< 0.005	< 0.005	—	10.1
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.98	< 0.005	< 0.005	< 0.005	5.26
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.10	< 0.005	< 0.005	< 0.005	0.10
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.14	< 0.005	< 0.005	< 0.005	0.14
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.02

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.02

3.3. Landscaping (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.96	3.41	< 0.005	0.07	—	0.07	0.06	—	0.06	535	0.02	< 0.005	—	537
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	30.8	< 0.005	< 0.005	—	30.9
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.10	< 0.005	< 0.005	—	5.12
Dust From Material Movement	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.20	< 0.005	< 0.005	< 0.005	0.21
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.04
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

3.5. Grading (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362

Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38	12.1	12.4	0.02	0.53	—	0.53	0.49	—	0.49	2,354	0.10	0.02	—	2,362
Dust From Material Movement	—	—	—	—	—	2.56	2.56	—	1.31	1.31	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.66	0.68	< 0.005	0.03	—	0.03	0.03	—	0.03	129	0.01	< 0.005	—	129
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.12	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	21.4	< 0.005	< 0.005	—	21.4
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.49	< 0.005	< 0.005	< 0.005	3.68
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.19	< 0.005	< 0.005	< 0.005	0.20
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.7. Treatment System Install (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.20	2.08	0.01	0.09	—	0.09	0.09	—	0.09	571	0.02	< 0.005	—	573

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	67.3	< 0.005	< 0.005	—	67.5
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.1	< 0.005	< 0.005	—	11.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.41	< 0.005	< 0.005	< 0.005	0.43
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	< 0.005	< 0.005	< 0.005	0.07
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

3.9. Paving (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.63	4.97	0.01	0.16	—	0.16	0.15	—	0.15	771	0.03	0.01	—	773
Paving	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	25.3	< 0.005	< 0.005	—	25.4
Paving	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	4.19	< 0.005	< 0.005	—	4.21
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
Hauling	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.98	< 0.005	< 0.005	< 0.005	5.26
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.12	< 0.005	< 0.005	< 0.005	0.12
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	< 0.005	< 0.005	< 0.005	0.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.03

3.11. Architectural Coating (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	134	0.01	< 0.005	—	134
Architectural Coatings	8.98	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.04	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.22	< 0.005	< 0.005	—	6.24
Architectural Coatings	0.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	1.03	< 0.005	< 0.005	—	1.03
Architectural Coatings	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.52	< 0.005	< 0.005	< 0.005	3.70
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.16	< 0.005	< 0.005	< 0.005	0.17
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.03	< 0.005	< 0.005	< 0.005	0.03
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

3.13. Pipe Installation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.10	1.91	< 0.005	0.04	—	0.04	0.04	—	0.04	290	0.01	< 0.005	—	291
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.12	0.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.6	< 0.005	< 0.005	—	32.7
Onsite truck	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.40	< 0.005	< 0.005	—	5.42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.49	< 0.005	< 0.005	< 0.005	3.68
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.39	< 0.005	< 0.005	< 0.005	0.41
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.07	< 0.005	< 0.005	< 0.005	0.07
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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5

Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.26	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	72.4	< 0.005	< 0.005	0.25	73.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Parking Lot	0.00	0.00	0.00	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	0.03	0.02	0.24	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	69.6	< 0.005	< 0.005	0.01	70.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8
Parking Lot	0.00	0.00	0.00	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	< 0.005	< 0.005	0.04	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	11.7	< 0.005	< 0.005	0.02	11.8

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	217	0.01	< 0.005	—	218
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	287	0.02	< 0.005	—	288

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	217	0.01	< 0.005	—	218
Parking Lot	—	—	—	—	—	—	—	—	—	—	69.3	< 0.005	< 0.005	—	69.6
Total	—	—	—	—	—	—	—	—	—	—	287	0.02	< 0.005	—	288
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	36.0	< 0.005	< 0.005	—	36.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	11.5	< 0.005	< 0.005	—	11.5
Total	—	—	—	—	—	—	—	—	—	—	47.4	< 0.005	< 0.005	—	47.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	194	0.02	< 0.005	—	195
Parking Lot	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	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	194	0.02	< 0.005	—	195
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	194	0.02	< 0.005	—	195
Parking Lot	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	0.01	0.16	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	194	0.02	< 0.005	—	195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.1	< 0.005	< 0.005	—	32.2
Parking Lot	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	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	32.1	< 0.005	< 0.005	—	32.2

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69
Total	0.47	0.01	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.68	< 0.005	< 0.005	—	2.69

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31
Total	0.08	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.30	< 0.005	< 0.005	—	0.31

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.84	0.01	< 0.005	—	1.25
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	0.14	< 0.005	< 0.005	—	0.21

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	10.0	1.00	0.00	—	35.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1.66	0.17	0.00	—	5.81

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	3.90	3.90
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	0.65	0.65

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	3/7/2025	3/20/2025	5.00	10.0	Site mobilization, vegetation removal, clearing, and grubbing
Landscaping	Site Preparation	10/22/2025	11/19/2025	5.00	21.0	—
Grading	Grading	3/21/2025	4/17/2025	5.00	20.0	Site earthwork
Treatment System Install	Building Construction	10/22/2025	12/19/2025	5.00	43.0	—
Paving	Paving	11/20/2025	12/5/2025	5.00	12.0	—
Architectural Coating	Architectural Coating	12/9/2025	12/31/2025	5.00	17.0	—
Pipe Installation	Trenching	6/2/2025	7/28/2025	5.00	41.0	—

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
Site Preparation	Graders	Diesel	Average	0.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Site Preparation	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Site Preparation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Landscaping	Graders	Diesel	Average	0.00	8.00	148	0.41
Landscaping	Rubber Tired Dozers	Diesel	Average	0.00	7.00	367	0.40

Landscaping	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Landscaping	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Graders	Diesel	Average	0.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	0.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Off-Highway Trucks	Diesel	Average	1.00	2.00	376	0.38
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Treatment System Install	Cranes	Diesel	Average	1.00	4.00	367	0.29
Treatment System Install	Forklifts	Diesel	Average	1.00	4.00	82.0	0.20
Treatment System Install	Generator Sets	Diesel	Average	0.00	8.00	14.0	0.74
Treatment System Install	Tractors/Loaders/Backhoes	Diesel	Average	0.00	6.00	84.0	0.37
Treatment System Install	Welders	Diesel	Average	0.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	0.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	4.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Skid Steer Loaders	Diesel	Average	1.00	4.00	71.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Pipe Installation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	0.00	0.00	LDA,LDT1,LDT2
Site Preparation	Vendor	2.00	0.25	HHDT,MHDT
Site Preparation	Hauling	2.00	0.25	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	0.25	HHDT,MHDT
Grading	Hauling	0.00	0.25	HHDT
Grading	Onsite truck	—	—	HHDT
Landscaping	—	—	—	—
Landscaping	Worker	0.00	16.5	LDA,LDT1,LDT2
Landscaping	Vendor	2.00	0.25	HHDT,MHDT
Landscaping	Hauling	0.00	0.25	HHDT
Landscaping	Onsite truck	—	—	HHDT
Treatment System Install	—	—	—	—
Treatment System Install	Worker	0.00	18.5	LDA,LDT1,LDT2
Treatment System Install	Vendor	2.00	0.25	HHDT,MHDT
Treatment System Install	Hauling	0.00	0.25	HHDT
Treatment System Install	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	2.00	0.25	HHDT,MHDT
Paving	Hauling	2.00	0.25	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	0.25	HHDT,MHDT
Architectural Coating	Hauling	0.00	0.25	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Pipe Installation	—	—	—	—
Pipe Installation	Worker	0.00	18.5	LDA,LDT1,LDT2
Pipe Installation	Vendor	2.00	0.25	HHDT,MHDT
Pipe Installation	Hauling	0.00	0.25	HHDT
Pipe Installation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	22,500	7,500	2,944

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 (sq. ft.)	Acres Paved (acres)
Site Preparation	—	202	5.00	0.00	—
Landscaping	—	—	0.00	0.00	—

Grading	—	0.00	10.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.13

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Parking Lot	1.13	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	589	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	7.50	7.50	7.50	2,738	95.7	95.7	95.7	34,924
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	22,500	7,500	2,944

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Light Industry	134,601	589	0.0330	0.0040	605,464
Parking Lot	42,977	589	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)
General Light Industry	65,000	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	18.6	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	8.07	annual days of extreme heat
Extreme Precipitation	4.10	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	10.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	64.7
AQ-PM	41.5
AQ-DPM	16.9
Drinking Water	5.91
Lead Risk Housing	4.79
Pesticides	0.00
Toxic Releases	38.5
Traffic	49.2
Effect Indicators	—

CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	30.2
Impaired Water Bodies	66.7
Solid Waste	0.00
Sensitive Population	—
Asthma	8.40
Cardio-vascular	22.0
Low Birth Weights	2.30
Socioeconomic Factor Indicators	—
Education	7.40
Housing	44.5
Linguistic	44.8
Poverty	16.6
Unemployment	2.29

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	99.34556653
Employed	66.62389324
Median HI	97.42076222
Education	—
Bachelor's or higher	92.7242397
High school enrollment	100
Preschool enrollment	76.88951623
Transportation	—

Auto Access	87.47593995
Active commuting	4.914667009
Social	—
2-parent households	98.6141409
Voting	77.83908636
Neighborhood	—
Alcohol availability	92.13396638
Park access	81.35506224
Retail density	69.53676376
Supermarket access	39.38149621
Tree canopy	79.39176184
Housing	—
Homeownership	99.69203131
Housing habitability	97.0101373
Low-inc homeowner severe housing cost burden	65.10971385
Low-inc renter severe housing cost burden	90.56845887
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	96.29154369
Arthritis	0.0
Asthma ER Admissions	88.2
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	73.7

Cognitively Disabled	74.6
Physically Disabled	84.3
Heart Attack ER Admissions	76.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	20.9
Elderly	22.1
English Speaking	58.2
Foreign-born	43.2
Outdoor Workers	92.8
Climate Change Adaptive Capacity	—
Impervious Surface Cover	82.0
Traffic Density	22.0
Traffic Access	23.0
Other Indices	—
Hardship	4.2
Other Decision Support	—

2016 Voting	86.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	4.00
Healthy Places Index Score for Project Location (b)	97.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Provided by MNWD
Construction: Off-Road Equipment	provided by MNWD
Construction: Trips and VMT	Provided by Applicant. Mileage/trips reduced for construction HRA.
Operations: Vehicle Data	provided by applicant
Operations: Water and Waste Water	from Applicant

Worker Adjustment Factors
Worker adjustment factors enabled: NO

Fraction at time at home
3rd Trimester to 16 years: OFF
16 years to 70 years: OFF

****
SOIL & DERMAL PATHWAY SETTINGS

Deposition rate (m/s): 0.02
Soil mixing depth (m): 0.01
Dermal climate: Warm

****
HOMEGROWN CROP PATHWAY SETTINGS

Household type: HouseholdsthatGarden
Fraction leafy: 0.137
Fraction exposed: 0.137
Fraction protected: 0.137
Fraction root: 0.137

****
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 breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRACancerRisk.csv
Cancer risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRACancerRiskSumByRec.csv
Calculating chronic risk
Chronic risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRANCChronicRisk.csv
Chronic risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRANCChronicRiskSumByRec.csv
Calculating acute risk
Acute risk breakdown by pollutant and receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRANCAcuteRisk.csv
Acute risk total by receptor saved to: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRANCAcuteRiskSumByRec.csv

HARP2 - HRACalc (dated 22118) 7/30/2024 11:54:52 AM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
Pathway receptors 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: 0.833

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 0.833
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: True
Dermal: True
Mother's milk: True
Water: False
Fish: False
Homegrown crops: True
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

****
INHALATION

Daily breathing rate: RMP

```
** Lakes Environmental AERMOD MPI                                                                    HRA ran successfully
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 7/30/2024
** File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\Salinity
MGMT AERMOD\Salinity MGMT AERMOD.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 3010232
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL "Salinity MGMT AERMOD.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Equipment and Trucks
** PREFIX
** Length of Side = 10.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 16
** 434653.196, 3711406.408, 71.39, 5.00, 4.65
** 434597.160, 3711340.935, 64.45, 5.00, 4.65
```

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LOCATION L0000036     VOLUME   434599.923 3711246.836 63.80
LOCATION L0000037     VOLUME   434603.156 3711256.299 63.71
LOCATION L0000038     VOLUME   434606.390 3711265.762 63.61
LOCATION L0000039     VOLUME   434609.623 3711275.225 63.54
LOCATION L0000040     VOLUME   434615.773 3711281.861 63.61
LOCATION L0000041     VOLUME   434625.130 3711285.390 63.47
LOCATION L0000042     VOLUME   434634.486 3711288.920 63.18
LOCATION L0000043     VOLUME   434643.843 3711292.449 64.30
LOCATION L0000044     VOLUME   434653.199 3711295.978 65.52
LOCATION L0000045     VOLUME   434662.556 3711299.507 66.62
LOCATION L0000046     VOLUME   434671.912 3711303.037 67.14
LOCATION L0000047     VOLUME   434681.411 3711306.047 67.72
LOCATION L0000048     VOLUME   434691.259 3711307.785 68.33
LOCATION L0000049     VOLUME   434701.107 3711309.523 68.92
LOCATION L0000050     VOLUME   434709.920 3711312.823 69.48
LOCATION L0000051     VOLUME   434715.362 3711321.212 70.23
LOCATION L0000052     VOLUME   434720.804 3711329.602 71.37
LOCATION L0000053     VOLUME   434718.319 3711337.156 71.66
LOCATION L0000054     VOLUME   434711.248 3711344.227 71.29
LOCATION L0000055     VOLUME   434704.177 3711351.298 71.25
LOCATION L0000056     VOLUME   434697.106 3711358.370 71.01
LOCATION L0000057     VOLUME   434690.034 3711365.441 71.14
LOCATION L0000058     VOLUME   434682.963 3711372.512 71.57
LOCATION L0000059     VOLUME   434675.892 3711379.583 71.99
LOCATION L0000060     VOLUME   434668.821 3711386.654 72.38
LOCATION L0000061     VOLUME   434661.937 3711387.062 71.66
LOCATION L0000062     VOLUME   434655.274 3711379.606 68.95
LOCATION L0000063     VOLUME   434648.611 3711372.149 66.53
LOCATION L0000064     VOLUME   434641.947 3711364.693 64.47
LOCATION L0000065     VOLUME   434635.284 3711357.236 62.94
LOCATION L0000066     VOLUME   434628.621 3711349.780 62.73
LOCATION L0000067     VOLUME   434621.957 3711342.323 62.93
LOCATION L0000068     VOLUME   434615.398 3711334.814 63.55
LOCATION L0000069     VOLUME   434613.323 3711325.031 63.97
LOCATION L0000070     VOLUME   434611.248 3711315.249 64.02
LOCATION L0000071     VOLUME   434609.173 3711305.467 64.04
LOCATION L0000072     VOLUME   434607.466 3711296.436 64.02
LOCATION L0000073     VOLUME   434613.918 3711304.076 63.77
LOCATION L0000074     VOLUME   434620.370 3711311.716 63.43
LOCATION L0000075     VOLUME   434626.822 3711319.357 62.98
LOCATION L0000076     VOLUME   434633.479 3711326.815 62.42
LOCATION L0000077     VOLUME   434640.291 3711334.136 63.12
LOCATION L0000078     VOLUME   434647.103 3711341.457 64.36
LOCATION L0000079     VOLUME   434653.916 3711348.777 65.61
LOCATION L0000080     VOLUME   434660.728 3711356.098 66.88
LOCATION L0000081     VOLUME   434667.540 3711363.419 68.30
LOCATION L0000082     VOLUME   434674.663 3711359.804 68.52
LOCATION L0000083     VOLUME   434681.880 3711352.881 68.97
LOCATION L0000084     VOLUME   434689.097 3711345.959 69.32
LOCATION L0000085     VOLUME   434696.313 3711339.037 69.51
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** 434678.560, 3711305.544, 68.24, 5.00, 4.65
** 434708.642, 3711310.852, 70.03, 5.00, 4.65
** 434722.798, 3711332.677, 71.29, 5.00, 4.65
** 434664.993, 3711390.482, 72.19, 5.00, 4.65
** 434615.446, 3711335.036, 63.93, 5.00, 4.65
** 434607.188, 3711296.106, 63.96, 5.00, 4.65
** 434629.602, 3711322.649, 62.37, 5.00, 4.65
** 434669.122, 3711365.119, 67.33, 5.00, 4.65
** 434698.025, 3711337.396, 68.85, 5.00, 4.65
** 434690.946, 3711322.060, 68.30, 5.00, 4.65
** 434617.805, 3711291.977, 63.72, 5.00, 4.65
** 434673.841, 3711339.755, 66.84, 5.00, 4.65
** ---------------------------------------------------------------------
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   LOCATION L0000002     VOLUME   434643.443 3711395.012 67.40
   LOCATION L0000003     VOLUME   434636.940 3711387.414 65.38
   LOCATION L0000004     VOLUME   434630.438 3711379.817 63.88
   LOCATION L0000005     VOLUME   434623.936 3711372.220 62.86
   LOCATION L0000006     VOLUME   434617.434 3711364.622 62.18
   LOCATION L0000007     VOLUME   434610.931 3711357.025 62.10
   LOCATION L0000008     VOLUME   434604.429 3711349.428 62.97
   LOCATION L0000009     VOLUME   434597.927 3711341.830 63.84
   LOCATION L0000010     VOLUME   434595.889 3711332.205 64.55
   LOCATION L0000011     VOLUME   434594.447 3711322.310 64.77
   LOCATION L0000012     VOLUME   434593.005 3711312.414 64.87
   LOCATION L0000013     VOLUME   434591.563 3711302.519 65.00
   LOCATION L0000014     VOLUME   434590.122 3711292.623 65.13
   LOCATION L0000015     VOLUME   434588.680 3711282.728 65.27
   LOCATION L0000016     VOLUME   434587.238 3711272.832 65.45
   LOCATION L0000017     VOLUME   434585.796 3711262.937 65.48
   LOCATION L0000018     VOLUME   434584.355 3711253.041 65.39
   LOCATION L0000019     VOLUME   434582.913 3711243.146 65.27
   LOCATION L0000020     VOLUME   434581.471 3711233.250 65.05
   LOCATION L0000021     VOLUME   434580.030 3711223.355 64.82
   LOCATION L0000022     VOLUME   434578.588 3711213.459 64.62
   LOCATION L0000023     VOLUME   434577.146 3711203.564 64.43
   LOCATION L0000024     VOLUME   434575.704 3711193.668 64.24
   LOCATION L0000025     VOLUME   434574.263 3711183.773 64.10
   LOCATION L0000026     VOLUME   434572.821 3711173.877 64.04
   LOCATION L0000027     VOLUME   434571.379 3711163.981 64.10
   LOCATION L0000028     VOLUME   434574.055 3711171.134 63.92
   LOCATION L0000029     VOLUME   434577.288 3711180.597 63.77
   LOCATION L0000030     VOLUME   434580.522 3711190.059 63.81
   LOCATION L0000031     VOLUME   434583.755 3711199.522 64.00
   LOCATION L0000032     VOLUME   434586.989 3711208.985 64.20
   LOCATION L0000033     VOLUME   434590.222 3711218.448 64.23
   LOCATION L0000034     VOLUME   434593.456 3711227.911 64.13
   LOCATION L0000035     VOLUME   434596.689 3711237.373 63.89
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   SRCPARAM L0000032     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000033     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000034     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000035     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000036     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000037     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000038     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000039     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000040     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000041     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000042     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000043     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000044     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000045     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000046     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000047     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000048     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000049     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000050     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000051     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000052     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000053     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000054     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000055     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000056     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000057     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000058     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000059     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000060     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000061     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000062     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000063     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000064     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000065     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000066     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000067     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000068     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000069     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000070     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000071     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000072     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000073     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000074     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000075     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000076     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000077     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000078     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000079     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000080     0.0098039216      5.00      4.65      4.65
      LOCATION L0000086     VOLUME   434694.828 3711330.469 68.79
      LOCATION L0000087     VOLUME   434690.264 3711321.779 68.37
      LOCATION L0000088     VOLUME   434681.015 3711317.975 67.72
      LOCATION L0000089     VOLUME   434671.767 3711314.171 67.08
      LOCATION L0000090     VOLUME   434662.519 3711310.368 66.50
      LOCATION L0000091     VOLUME   434653.270 3711306.564 65.31
      LOCATION L0000092     VOLUME   434644.022 3711302.760 64.00
      LOCATION L0000093     VOLUME   434634.774 3711298.956 62.75
      LOCATION L0000094     VOLUME   434625.525 3711295.153 63.26
      LOCATION L0000095     VOLUME   434619.063 3711293.049 63.52
      LOCATION L0000096     VOLUME   434626.672 3711299.537 63.13
      LOCATION L0000097     VOLUME   434634.282 3711306.026 62.66
      LOCATION L0000098     VOLUME   434641.891 3711312.514 63.52
      LOCATION L0000099     VOLUME   434649.501 3711319.002 64.57
      LOCATION L0000100     VOLUME   434657.110 3711325.490 65.63
      LOCATION L0000101     VOLUME   434664.720 3711331.978 66.54
      LOCATION L0000102     VOLUME   434672.329 3711338.466 67.42
   ** End of LINE VOLUME Source ID = SLINE1
   ** Source Parameters **
   ** LINE VOLUME Source ID = SLINE1
      SRCPARAM L0000001     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000002     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000003     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000004     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000005     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000006     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000007     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000008     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000009     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000010     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000011     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000012     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000013     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000014     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000015     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000016     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000017     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000018     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000019     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000020     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000021     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000022     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000023     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000024     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000025     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000026     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000027     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000028     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000029     0.0098039216      5.00      4.65      4.65
      SRCPARAM L0000030     0.0098039216      5.00      4.65      4.65
```

```
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST "Salinity MGMT AERMOD.AD\01H1GALL.PLT" 31
   PLOTFILE PERIOD ALL "Salinity MGMT AERMOD.AD\PE00GALL.PLT" 32
   SUMMFILE "Salinity MGMT AERMOD.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     297       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     297       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:24:19

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
```

```
   SRCPARAM L0000081     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000082     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000083     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000084     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000085     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000086     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000087     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000088     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000089     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000090     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000091     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000092     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000093     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000094     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000095     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000096     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000097     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000098     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000099     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000100     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000101     0.0098039216      5.00      4.65      4.65
   SRCPARAM L0000102     0.0098039216      5.00      4.65      4.65
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED "Salinity MGMT AERMOD.rou"
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE ..\msvj_sfc_pfl\MSVJ_trimmed.sfc
   PROFFILE ..\msvj_sfc_pfl\MSVJ_trimmed.pfl
   SURFDATA 93184 2017
   UAIRDATA 3190 2017
   SITEDATA 60592022 2017
   PROFBASE 170.0 METERS
ME FINISHED
**
```

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) =   170.00 ; 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 =   3.7 MB of RAM.

 **Input Runstream File: aermod.inp

 **Output Print File: aermod.out

 **Detailed Error/Message File: Salinity MGMT AERMOD.err

 **File for Summary of Results: Salinity MGMT AERMOD.sum

 *** AERMOD - VERSION 23132 ***   *** C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***   07/30/24
 *** AERMET - VERSION 22112 ***   ***
                       ***   11:24:19

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT. INIT.   URBAN EMISSION RATE   AIRCRAFT
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY   SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS) (METERS)   BY
 -

 L0000001   0   0.98039E-02 434649.9 3711402.6   69.2   5.00   4.65   4.65   YES   NO
 L0000002   0   0.98039E-02 434643.4 3711395.0   67.4   5.00   4.65   4.65   YES   NO
 L0000003   0   0.98039E-02 434636.9 3711387.4   65.4   5.00   4.65

 ** Model Options Selected:
     * Model Uses Regulatory DEFAULT Options
     * 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   102 Source(s),
       for Total of   1 Urban Area(s):
  Urban Population =   3010232.0 ; 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 Assumes No FLAGPOLE Receptor Heights.
     * The User Specified a Pollutant Type of: PM_10

 **Model Calculates 1 Short Term Average(s) of: 1-HR
    and Calculates PERIOD Averages

 **This Run Includes: 102 Source(s);   1 Source Group(s); and   1102 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 102 VOLUME source(s)
                and: 0 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: 22112

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

```
4.65     YES                    NO
 L0000029         0   0.98039E-02  434577.3 3711180.6    63.8     5.00     4.65
4.65     YES                    NO
 L0000030         0   0.98039E-02  434580.5 3711190.1    63.8     5.00     4.65
4.65     YES                    NO
 L0000031         0   0.98039E-02  434583.8 3711199.5    64.0     5.00     4.65
4.65     YES                    NO
 L0000032         0   0.98039E-02  434587.0 3711209.0    64.2     5.00     4.65
4.65     YES                    NO
 L0000033         0   0.98039E-02  434590.2 3711218.4    64.2     5.00     4.65
4.65     YES                    NO
 L0000034         0   0.98039E-02  434593.5 3711227.9    64.1     5.00     4.65
4.65     YES                    NO
 L0000035         0   0.98039E-02  434596.7 3711237.4    63.9     5.00     4.65
4.65     YES                    NO
 L0000036         0   0.98039E-02  434599.9 3711246.8    63.8     5.00     4.65
4.65     YES                    NO
 L0000037         0   0.98039E-02  434603.2 3711256.3    63.7     5.00     4.65
4.65     YES                    NO
 L0000038         0   0.98039E-02  434606.4 3711265.8    63.6     5.00     4.65
4.65     YES                    NO
 L0000039         0   0.98039E-02  434609.6 3711275.2    63.5     5.00     4.65
4.65     YES                    NO
 L0000040         0   0.98039E-02  434615.8 3711281.9    63.6     5.00     4.65
4.65     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

                                PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID          CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0000041         0   0.98039E-02  434625.1 3711285.4    63.5     5.00     4.65
4.65     YES                    NO
 L0000042         0   0.98039E-02  434634.5 3711288.9    63.2     5.00     4.65
4.65     YES                    NO
 L0000043         0   0.98039E-02  434643.8 3711292.4    64.3     5.00     4.65
4.65     YES                    NO
 L0000004         0   0.98039E-02  434630.4 3711379.8    63.9     5.00     4.65
4.65     YES                    NO
 L0000005         0   0.98039E-02  434623.9 3711372.2    62.9     5.00     4.65
4.65     YES                    NO
 L0000006         0   0.98039E-02  434617.4 3711364.6    62.2     5.00     4.65
4.65     YES                    NO
 L0000007         0   0.98039E-02  434610.9 3711357.0    62.1     5.00     4.65
4.65     YES                    NO
 L0000008         0   0.98039E-02  434604.4 3711349.4    63.0     5.00     4.65
4.65     YES                    NO
 L0000009         0   0.98039E-02  434597.9 3711341.8    63.8     5.00     4.65
4.65     YES                    NO
 L0000010         0   0.98039E-02  434595.9 3711332.2    64.5     5.00     4.65
4.65     YES                    NO
 L0000011         0   0.98039E-02  434594.4 3711322.3    64.8     5.00     4.65
4.65     YES                    NO
 L0000012         0   0.98039E-02  434593.0 3711312.4    64.9     5.00     4.65
4.65     YES                    NO
 L0000013         0   0.98039E-02  434591.6 3711302.5    65.0     5.00     4.65
4.65     YES                    NO
 L0000014         0   0.98039E-02  434590.1 3711292.6    65.1     5.00     4.65
4.65     YES                    NO
 L0000015         0   0.98039E-02  434588.7 3711282.7    65.3     5.00     4.65
4.65     YES                    NO
 L0000016         0   0.98039E-02  434587.2 3711272.8    65.5     5.00     4.65
4.65     YES                    NO
 L0000017         0   0.98039E-02  434585.8 3711262.9    65.5     5.00     4.65
4.65     YES                    NO
 L0000018         0   0.98039E-02  434584.4 3711253.0    65.4     5.00     4.65
4.65     YES                    NO
 L0000019         0   0.98039E-02  434582.9 3711243.1    65.3     5.00     4.65
4.65     YES                    NO
 L0000020         0   0.98039E-02  434581.5 3711233.2    65.0     5.00     4.65
4.65     YES                    NO
 L0000021         0   0.98039E-02  434580.0 3711223.4    64.8     5.00     4.65
4.65     YES                    NO
 L0000022         0   0.98039E-02  434578.6 3711213.5    64.6     5.00     4.65
4.65     YES                    NO
 L0000023         0   0.98039E-02  434577.1 3711203.6    64.4     5.00     4.65
4.65     YES                    NO
 L0000024         0   0.98039E-02  434575.7 3711193.7    64.2     5.00     4.65
4.65     YES                    NO
 L0000025         0   0.98039E-02  434574.3 3711183.8    64.1     5.00     4.65
4.65     YES                    NO
 L0000026         0   0.98039E-02  434572.8 3711173.9    64.0     5.00     4.65
4.65     YES                    NO
 L0000027         0   0.98039E-02  434571.4 3711164.0    64.1     5.00     4.65
4.65     YES                    NO
 L0000028         0   0.98039E-02  434574.1 3711171.1    63.9     5.00     4.65
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4.65     YES                    NO
 L0000069         0   0.98039E-02  434613.3 3711325.0    64.0     5.00     4.65
4.65     YES                    NO
 L0000070         0   0.98039E-02  434611.2 3711315.2    64.0     5.00     4.65
4.65     YES                    NO
 L0000071         0   0.98039E-02  434609.2 3711305.5    64.0     5.00     4.65
4.65     YES                    NO
 L0000072         0   0.98039E-02  434607.5 3711296.4    64.0     5.00     4.65
4.65     YES                    NO
 L0000073         0   0.98039E-02  434613.9 3711304.1    63.8     5.00     4.65
4.65     YES                    NO
 L0000074         0   0.98039E-02  434620.4 3711311.7    63.4     5.00     4.65
4.65     YES                    NO
 L0000075         0   0.98039E-02  434626.8 3711319.4    63.0     5.00     4.65
4.65     YES                    NO
 L0000076         0   0.98039E-02  434633.5 3711326.8    62.4     5.00     4.65
4.65     YES                    NO
 L0000077         0   0.98039E-02  434640.3 3711334.1    63.1     5.00     4.65
4.65     YES                    NO
 L0000078         0   0.98039E-02  434647.1 3711341.5    64.4     5.00     4.65
4.65     YES                    NO
 L0000079         0   0.98039E-02  434653.9 3711348.8    65.6     5.00     4.65
4.65     YES                    NO
 L0000080         0   0.98039E-02  434660.7 3711356.1    66.9     5.00     4.65
4.65     YES                    NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:24:19

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.              (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0000081         0   0.98039E-02  434667.5 3711363.4    68.3     5.00     4.65
4.65     YES                    NO
 L0000082         0   0.98039E-02  434674.7 3711359.8    68.5     5.00     4.65
4.65     YES                    NO
 L0000083         0   0.98039E-02  434681.9 3711352.9    69.0     5.00     4.65
4.65     YES                    NO
 L0000044         0   0.98039E-02  434653.2 3711296.0    65.5     5.00     4.65
4.65     YES                    NO
 L0000045         0   0.98039E-02  434662.6 3711299.5    66.6     5.00     4.65
4.65     YES                    NO
 L0000046         0   0.98039E-02  434671.9 3711303.0    67.1     5.00     4.65
4.65     YES                    NO
 L0000047         0   0.98039E-02  434681.4 3711306.0    67.7     5.00     4.65
4.65     YES                    NO
 L0000048         0   0.98039E-02  434691.3 3711307.8    68.3     5.00     4.65
4.65     YES                    NO
 L0000049         0   0.98039E-02  434701.1 3711309.5    68.9     5.00     4.65
4.65     YES                    NO
 L0000050         0   0.98039E-02  434709.9 3711312.8    69.5     5.00     4.65
4.65     YES                    NO
 L0000051         0   0.98039E-02  434715.4 3711321.2    70.2     5.00     4.65
4.65     YES                    NO
 L0000052         0   0.98039E-02  434720.8 3711329.6    71.4     5.00     4.65
4.65     YES                    NO
 L0000053         0   0.98039E-02  434718.3 3711337.2    71.7     5.00     4.65
4.65     YES                    NO
 L0000054         0   0.98039E-02  434711.2 3711344.2    71.3     5.00     4.65
4.65     YES                    NO
 L0000055         0   0.98039E-02  434704.2 3711351.3    71.2     5.00     4.65
4.65     YES                    NO
 L0000056         0   0.98039E-02  434697.1 3711358.4    71.0     5.00     4.65
4.65     YES                    NO
 L0000057         0   0.98039E-02  434690.0 3711365.4    71.1     5.00     4.65
4.65     YES                    NO
 L0000058         0   0.98039E-02  434683.0 3711372.5    71.6     5.00     4.65
4.65     YES                    NO
 L0000059         0   0.98039E-02  434675.9 3711379.6    72.0     5.00     4.65
4.65     YES                    NO
 L0000060         0   0.98039E-02  434668.8 3711386.7    72.4     5.00     4.65
4.65     YES                    NO
 L0000061         0   0.98039E-02  434661.9 3711387.1    71.7     5.00     4.65
4.65     YES                    NO
 L0000062         0   0.98039E-02  434655.3 3711379.6    69.0     5.00     4.65
4.65     YES                    NO
 L0000063         0   0.98039E-02  434648.6 3711372.1    66.5     5.00     4.65
4.65     YES                    NO
 L0000064         0   0.98039E-02  434641.9 3711364.7    64.5     5.00     4.65
4.65     YES                    NO
 L0000065         0   0.98039E-02  434635.3 3711357.2    62.9     5.00     4.65
4.65     YES                    NO
 L0000066         0   0.98039E-02  434628.6 3711349.8    62.7     5.00     4.65
4.65     YES                    NO
 L0000067         0   0.98039E-02  434622.0 3711342.3    62.9     5.00     4.65
4.65     YES                    NO
 L0000068         0   0.98039E-02  434615.4 3711334.8    63.5     5.00     4.65
```

```
 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000007    , L0000008    ,

             L0000009    , L0000010    , L0000011    , L0000012    , L0000013    ,
L0000014    , L0000015    , L0000016    ,

             L0000017    , L0000018    , L0000019    , L0000020    , L0000021    ,
L0000022    , L0000023    , L0000024    ,

             L0000025    , L0000026    , L0000027    , L0000028    , L0000029    ,
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             L0000033    , L0000034    , L0000035    , L0000036    , L0000037    ,
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             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
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             L0000057    , L0000058    , L0000059    , L0000060    , L0000061    ,
L0000062    , L0000063    , L0000064    ,

             L0000065    , L0000066    , L0000067    , L0000068    , L0000069    ,
L0000070    , L0000071    , L0000072    ,

             L0000073    , L0000074    , L0000075    , L0000076    , L0000077    ,
L0000078    , L0000079    , L0000080    ,

             L0000081    , L0000082    , L0000083    , L0000084    , L0000085    ,
L0000086    , L0000087    , L0000088    ,

             L0000089    , L0000090    , L0000091    , L0000092    , L0000093    ,
L0000094    , L0000095    , L0000096    ,

             L0000097    , L0000098    , L0000099    , L0000100    , L0000101    ,
L0000102    ,
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

```
4.65     YES                   NO
 L0000084         0   0.98039E-02  434689.1 3711346.0    69.3     5.00     4.65
4.65     YES                   NO
 L0000085         0   0.98039E-02  434696.3 3711339.0    69.5     5.00     4.65
4.65     YES                   NO
 L0000086         0   0.98039E-02  434694.8 3711330.5    68.8     5.00     4.65
4.65     YES                   NO
 L0000087         0   0.98039E-02  434690.3 3711321.8    68.4     5.00     4.65
4.65     YES                   NO
 L0000088         0   0.98039E-02  434681.0 3711318.0    67.7     5.00     4.65
4.65     YES                   NO
 L0000089         0   0.98039E-02  434671.8 3711314.2    67.1     5.00     4.65
4.65     YES                   NO
 L0000090         0   0.98039E-02  434662.5 3711310.4    66.5     5.00     4.65
4.65     YES                   NO
 L0000091         0   0.98039E-02  434653.3 3711306.6    65.3     5.00     4.65
4.65     YES                   NO
 L0000092         0   0.98039E-02  434644.0 3711302.8    64.0     5.00     4.65
4.65     YES                   NO
 L0000093         0   0.98039E-02  434634.8 3711299.0    62.8     5.00     4.65
4.65     YES                   NO
 L0000094         0   0.98039E-02  434625.5 3711295.2    63.3     5.00     4.65
4.65     YES                   NO
 L0000095         0   0.98039E-02  434619.1 3711293.0    63.5     5.00     4.65
4.65     YES                   NO
 L0000096         0   0.98039E-02  434626.7 3711299.5    63.1     5.00     4.65
4.65     YES                   NO
 L0000097         0   0.98039E-02  434634.3 3711306.0    62.7     5.00     4.65
4.65     YES                   NO
 L0000098         0   0.98039E-02  434641.9 3711312.5    63.5     5.00     4.65
4.65     YES                   NO
 L0000099         0   0.98039E-02  434649.5 3711319.0    64.6     5.00     4.65
4.65     YES                   NO
 L0000100         0   0.98039E-02  434657.1 3711325.5    65.6     5.00     4.65
4.65     YES                   NO
 L0000101         0   0.98039E-02  434664.7 3711332.0    66.5     5.00     4.65
4.65     YES                   NO
 L0000102         0   0.98039E-02  434672.3 3711338.5    67.4     5.00     4.65
4.65     YES                   NO
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** SOURCE IDs DEFINING SOURCE GROUPS ***
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(433702.3, 3710264.0, 102.6, 241.7, 0.0); (433752.3, 3710264.0, 103.7, 113.8, 0.0);
(433802.3, 3710264.0, 107.4, 107.4, 0.0); (433852.3, 3710264.0, 111.0, 111.0, 0.0);
(433702.3, 3710314.0, 102.9, 241.7, 0.0); (433752.3, 3710314.0, 103.8, 115.3, 0.0);
(433802.3, 3710314.0, 111.1, 111.1, 0.0); (433852.3, 3710314.0, 112.2, 112.2, 0.0);
(433752.3, 3710364.0, 103.7, 116.2, 0.0); (433802.3, 3710364.0, 114.1, 114.1, 0.0);
(433852.3, 3710364.0, 115.4, 115.4, 0.0); (433902.3, 3710364.0, 115.9, 115.9, 0.0);
(433752.3, 3710414.0, 103.5, 116.4, 0.0); (433802.3, 3710414.0, 114.2, 114.7, 0.0);
(433852.3, 3710414.0, 115.9, 115.9, 0.0); (433902.3, 3710414.0, 116.5, 116.5, 0.0);
(433752.3, 3710464.0, 103.7, 116.9, 0.0); (433802.3, 3710464.0, 112.2, 116.4, 0.0);
(433852.3, 3710464.0, 116.1, 116.1, 0.0); (433902.3, 3710464.0, 116.5, 116.5, 0.0);
(433752.3, 3710514.0, 104.0, 117.7, 0.0); (433802.3, 3710514.0, 109.2, 117.4, 0.0);
(433852.3, 3710514.0, 116.6, 116.6, 0.0); (433902.3, 3710514.0, 117.3, 117.3, 0.0);
(434452.3, 3710514.0, 94.0, 179.9, 0.0); (434502.3, 3710514.0, 90.9, 179.9, 0.0);
(433752.3, 3710564.0, 104.5, 117.7, 0.0); (433802.3, 3710564.0, 106.6, 117.7, 0.0);
(433852.3, 3710564.0, 117.0, 117.4, 0.0); (433902.3, 3710564.0, 117.3, 117.3, 0.0);
(434452.3, 3710564.0, 95.2, 179.9, 0.0); (434502.3, 3710564.0, 96.2, 179.9, 0.0);
(434552.3, 3710564.0, 94.4, 179.9, 0.0); (433802.3, 3710614.0, 105.8, 121.4, 0.0);
(433852.3, 3710614.0, 116.8, 116.8, 0.0); (433902.3, 3710614.0, 117.6, 117.6, 0.0);
(434452.3, 3710614.0, 100.6, 179.9, 0.0); (434502.3, 3710614.0, 104.1, 179.9, 0.0);
(434552.3, 3710614.0, 99.5, 179.9, 0.0); (434602.3, 3710614.0, 97.2, 179.9, 0.0);
(434652.3, 3710614.0, 90.4, 179.9, 0.0); (433802.3,

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URBAN ID	URBAN POP	SOURCE IDs
	3010232.	L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 ,
		L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 ,
		L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 ,
		L0000025 , L0000026 , L0000027 , L0000028 , L0000029 , L0000030 , L0000031 , L0000032 ,
		L0000033 , L0000034 , L0000035 , L0000036 , L0000037 , L0000038 , L0000039 , L0000040 ,
		L0000041 , L0000042 , L0000043 , L0000044 , L0000045 , L0000046 , L0000047 , L0000048 ,
		L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 ,
		L0000057 , L0000058 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 ,
		L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000071 , L0000072 ,
		L0000073 , L0000074 , L0000075 , L0000076 , L0000077 , L0000078 , L0000079 , L0000080 ,
		L0000081 , L0000082 , L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000088 ,
		L0000089 , L0000090 , L0000091 , L0000092 , L0000093 , L0000094 , L0000095 , L0000096 ,
		L0000097 , L0000098 , L0000099 , L0000100 , L0000101 , L0000102 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(434752.3, 3710864.0, 104.9, 107.0, 0.0); (434802.3, 3710864.0, 101.0, 107.1, 0.0);
(434852.3, 3710864.0, 98.8, 174.0, 0.0); (434902.3, 3710864.0, 93.8, 175.7, 0.0);
(433852.3, 3710914.0, 99.8, 122.0, 0.0); (433902.3, 3710914.0, 104.8, 122.0, 0.0);
(433952.3, 3710914.0, 110.1, 115.0, 0.0); (434002.3, 3710914.0, 111.8, 111.8, 0.0);
(434652.3, 3710914.0, 106.5, 106.5, 0.0); (434702.3, 3710914.0, 107.0, 107.0, 0.0);
(434752.3, 3710914.0, 107.2, 107.2, 0.0); (434802.3, 3710914.0, 105.0, 105.0, 0.0);
(434852.3, 3710914.0, 102.5, 102.5, 0.0); (434902.3, 3710914.0, 98.8, 103.4, 0.0);
(434952.3, 3710914.0, 94.0, 174.6, 0.0); (433852.3, 3710964.0, 105.9, 119.9, 0.0);
(433902.3, 3710964.0, 106.0, 120.3, 0.0); (433952.3, 3710964.0, 111.4, 111.4, 0.0);
(434002.3, 3710964.0, 113.5, 113.5, 0.0); (434052.3, 3710964.0, 115.5, 115.5, 0.0);
(434652.3, 3710964.0, 105.4, 105.4, 0.0); (434702.3, 3710964.0, 106.8, 106.8, 0.0);
(434752.3, 3710964.0, 107.3, 107.3, 0.0); (434802.3, 3710964.0, 107.0, 107.0, 0.0);
(434852.3, 3710964.0, 105.6, 105.6, 0.0); (434902.3, 3710964.0, 103.4, 103.4, 0.0);
(434952.3, 3710964.0, 97.6, 109.0, 0.0); (433802.3, 3711014.0, 108.8, 108.8, 0.0);
(433852.3, 3711014.0, 108.0, 121.4, 0.0); (433902.3, 3711014.0, 112.1, 120.3, 0.0);
(433952.3, 3711014.0, 114.3, 114.3, 0.0); (434002.3, 3711014.0, 116.2, 116.2, 0.0);
(434052.3, 3711014.0, 117.9, 117.9, 0.0); (434702.3, 3711014.0, 106.6, 106.6, 0.0);
(434752.3, 3711014.0, 107.4, 107.4, 0.0); (434802.3, 3711014.0, 108.3, 108.3, 0.0);
(434852.3, 3711014.0, 108.6, 108.6, 0.0); (434902.3, 3711014.0, 105.5, 105.5, 0.0);
(434952.3, 3711014.0, 103.6, 104.7, 0.0); (435002.3, 3710664.0, 105.7, 122.0, 0.0);
(433852.3, 3710664.0, 115.8, 119.7, 0.0); (433902.3, 3710664.0, 118.8, 118.8, 0.0);
(434502.3, 3710664.0, 106.4, 106.4, 0.0); (434552.3, 3710664.0, 105.1, 171.5, 0.0);
(434602.3, 3710664.0, 100.4, 179.9, 0.0); (434652.3, 3710664.0, 96.9, 179.9, 0.0);
(434702.3, 3710664.0, 91.4, 179.9, 0.0); (433802.3, 3710714.0, 105.9, 122.0, 0.0);
(433852.3, 3710714.0, 111.8, 122.0, 0.0); (433902.3, 3710714.0, 120.7, 120.7, 0.0);
(433952.3, 3710714.0, 121.8, 121.8, 0.0); (434002.3, 3710714.0, 122.2, 122.2, 0.0);
(434502.3, 3710714.0, 105.4, 105.4, 0.0); (434552.3, 3710714.0, 105.0, 105.0, 0.0);
(434602.3, 3710714.0, 103.4, 172.8, 0.0); (434652.3, 3710714.0, 101.6, 179.9, 0.0);
(434702.3, 3710714.0, 98.2, 179.9, 0.0); (434752.3, 3710714.0, 89.9, 179.9, 0.0);
(433802.3, 3710764.0, 106.4, 122.0, 0.0); (433852.3, 3710764.0, 107.3, 122.0, 0.0);
(433902.3, 3710764.0, 116.1, 122.0, 0.0); (433952.3, 3710764.0, 121.0, 121.0, 0.0);
(434552.3, 3710764.0, 105.1, 105.1, 0.0); (434602.3, 3710764.0, 107.0, 107.0, 0.0);
(434652.3, 3710764.0, 105.6, 108.2, 0.0); (434702.3, 3710764.0, 100.2, 174.3, 0.0);
(434752.3, 3710764.0, 95.7, 179.9, 0.0); (434802.3, 3710764.0, 90.2, 179.9, 0.0);
(433802.3, 3710814.0, 103.0, 122.0, 0.0); (433852.3, 3710814.0, 107.3, 122.0, 0.0);
(433902.3, 3710814.0, 111.1, 122.0, 0.0); (433952.3, 3710814.0, 117.3, 118.5, 0.0);
(434002.3, 3710814.0, 117.9, 117.9, 0.0); (434552.3, 3710814.0, 105.0, 105.0, 0.0);
(434602.3, 3710814.0, 107.1, 107.1, 0.0); (434652.3, 3710814.0, 107.9, 107.9, 0.0);
(434702.3, 3710814.0, 103.6, 107.7, 0.0); (434752.3, 3710814.0, 98.9, 174.0, 0.0);
(434802.3, 3710814.0, 95.7, 177.6, 0.0); (434852.3, 3710814.0, 93.5, 179.9, 0.0);
(433802.3, 3710864.0, 98.4, 122.0, 0.0); (433852.3, 3710864.0, 101.9, 122.0, 0.0);
(433902.3, 3710864.0, 110.7, 119.8, 0.0); (433952.3, 3710864.0, 114.8, 114.8, 0.0);
(434002.3, 3710864.0, 115.5, 115.5, 0.0); (434602.3, 3710864.0, 106.0, 106.0, 0.0);
(434652.3, 3710864.0, 107.4, 107.4, 0.0); (434702.3, 3710864.0, 107.4, 107.4, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

    (434952.3, 3711264.0,   96.9,   96.9,   0.0);   (435002.3,
3711264.0,   99.2,   99.2,   0.0);
    (435052.3, 3711264.0,   101.0,   101.0,   0.0);   (435102.3,
3711264.0,   99.8,   99.8,   0.0);
    (435152.3, 3711264.0,   98.8,   98.8,   0.0);   (435202.3,
3711264.0,   97.2,   97.2,   0.0);
    (433902.3, 3711314.0,   125.3,   125.3,   0.0);   (433952.3,
3711314.0,   125.5,   125.5,   0.0);
    (434002.3, 3711314.0,   125.1,   125.1,   0.0);   (434052.3,
3711314.0,   125.7,   125.7,   0.0);
    (434852.3, 3711314.0,   82.9,   119.7,   0.0);   (434902.3,
3711314.0,   88.0,   115.5,   0.0);
    (434952.3, 3711314.0,   90.9,   103.2,   0.0);   (435002.3,
3711314.0,   94.8,   98.5,   0.0);
    (435052.3, 3711314.0,   98.0,   98.0,   0.0);   (435102.3,
3711314.0,   98.5,   98.5,   0.0);
    (435152.3, 3711314.0,   98.1,   98.1,   0.0);   (435202.3,
3711314.0,   98.8,   98.8,   0.0);
    (435252.3, 3711314.0,   98.1,   98.1,   0.0);   (434002.3,
3711364.0,   124.3,   124.3,   0.0);
    (434052.3, 3711364.0,   126.0,   126.0,   0.0);   (434852.3,
3711364.0,   83.1,   119.7,   0.0);
    (434902.3, 3711364.0,   84.7,   119.7,   0.0);   (434952.3,
3711364.0,   87.9,   119.7,   0.0);
    (435002.3, 3711364.0,   89.3,   115.5,   0.0);   (435052.3,
3711364.0,   91.5,   99.0,   0.0);
    (435102.3, 3711364.0,   95.7,   95.7,   0.0);   (435152.3,
3711364.0,   97.6,   97.6,   0.0);
    (435202.3, 3711364.0,   99.7,   99.7,   0.0);   (435252.3,
3711364.0,   100.6,   100.6,   0.0);
    (435302.3, 3711364.0,   98.5,   98.5,   0.0);   (434002.3,
3711414.0,   119.8,   122.5,   0.0);
    (434052.3, 3711414.0,   121.5,   123.9,   0.0);   (434152.3,
3711414.0,   120.1,   120.1,   0.0);
    (434202.3, 3711414.0,   120.1,   120.1,   0.0);   (434902.3,
3711414.0,   85.8,   119.7,   0.0);
    (434952.3, 3711414.0,   86.4,   119.7,   0.0);   (435002.3,
3711014.0,   95.9,   109.9,   0.0);
    (433802.3, 3711064.0,   112.4,   112.4,   0.0);   (433852.3,
3711064.0,   110.8,   121.8,   0.0);
    (433902.3, 3711064.0,   115.7,   121.4,   0.0);   (433952.3,
3711064.0,   116.7,   120.3,   0.0);
    (434002.3, 3711064.0,   118.1,   118.1,   0.0);   (434052.3,
3711064.0,   119.5,   119.5,   0.0);
    (434752.3, 3711064.0,   107.6,   107.6,   0.0);   (434802.3,
3711064.0,   108.8,   108.8,   0.0);
    (434852.3, 3711064.0,   109.5,   109.5,   0.0);   (434902.3,
3711064.0,   108.4,   108.4,   0.0);
    (434952.3, 3711064.0,   103.0,   109.9,   0.0);   (433752.3,
3711114.0,   115.0,   115.0,   0.0);
    (433802.3, 3711114.0,   114.7,   118.6,   0.0);   (433852.3,
3711114.0,   116.4,   121.5,   0.0);
    (433902.3, 3711114.0,   121.0,   121.0,   0.0);   (433952.3,
3711114.0,   121.0,   121.0,   0.0);
    (434002.3, 3711114.0,   120.5,   120.5,   0.0);   (434052.3,
3711114.0,   120.5,   120.5,   0.0);
    (434752.3, 3711114.0,   107.6,   107.6,   0.0);   (434802.3,
3711114.0,   108.6,   108.6,   0.0);
    (434852.3, 3711114.0,   109.2,   109.2,   0.0);   (433802.3,
3711164.0,   119.4,   119.4,   0.0);
    (433852.3, 3711164.0,   120.1,   120.1,   0.0);   (433902.3,
3711164.0,   122.1,   122.1,   0.0);
    (433952.3, 3711164.0,   122.7,   122.7,   0.0);   (434002.3,
3711164.0,   122.6,   122.6,   0.0);
    (434052.3, 3711164.0,   121.9,   121.9,   0.0);   (434102.3,
3711164.0,   121.6,   121.6,   0.0);
    (434752.3, 3711164.0,   106.0,   106.0,   0.0);   (435052.3,
3711164.0,   103.4,   103.4,   0.0);
    (435102.3, 3711164.0,   99.0,   102.7,   0.0);   (433802.3,
3711214.0,   121.0,   121.0,   0.0);
    (433852.3, 3711214.0,   121.6,   121.6,   0.0);   (433902.3,
3711214.0,   123.0,   123.0,   0.0);
    (433952.3, 3711214.0,   123.7,   123.7,   0.0);   (434002.3,
3711214.0,   124.0,   124.0,   0.0);
    (434052.3, 3711214.0,   124.0,   124.0,   0.0);   (434102.3,
3711214.0,   123.1,   123.1,   0.0);
    (434952.3, 3711214.0,   99.0,   99.0,   0.0);   (435002.3,
3711214.0,   102.6,   102.6,   0.0);
    (435052.3, 3711214.0,   102.2,   102.2,   0.0);   (435102.3,
3711214.0,   100.8,   100.8,   0.0);
    (435152.3, 3711214.0,   98.7,   98.7,   0.0);   (433852.3,
3711264.0,   122.9,   124.8,   0.0);
    (433902.3, 3711264.0,   124.5,   124.5,   0.0);   (433952.3,
3711264.0,   125.0,   125.0,   0.0);
    (434002.3, 3711264.0,   124.5,   124.5,   0.0);   (434052.3,
3711264.0,   125.1,   125.1,   0.0);
    (434102.3, 3711264.0,   125.0,   125.0,   0.0);   (434902.3,

3711564.0, 102.2, 121.8, 0.0);
  (433902.3, 3711614.0, 106.0, 106.0, 0.0); (433952.3,
3711614.0, 107.8, 107.8, 0.0);

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

  (434002.3, 3711614.0, 109.5, 109.5, 0.0); (434052.3,
3711614.0, 111.3, 111.3, 0.0);
  (434102.3, 3711614.0, 112.1, 112.1, 0.0); (434852.3,
3711614.0, 112.6, 115.2, 0.0);
  (434902.3, 3711614.0, 115.5, 115.5, 0.0); (434952.3,
3711614.0, 114.8, 114.8, 0.0);
  (435002.3, 3711614.0, 110.8, 119.6, 0.0); (435052.3,
3711614.0, 107.8, 119.6, 0.0);
  (435102.3, 3711614.0, 105.5, 119.0, 0.0); (435152.3,
3711614.0, 97.1, 124.3, 0.0);
  (435202.3, 3711614.0, 94.2, 124.3, 0.0); (435252.3,
3711614.0, 98.1, 121.8, 0.0);
  (435302.3, 3711614.0, 108.5, 121.8, 0.0); (435352.3,
3711614.0, 113.0, 121.8, 0.0);
  (435402.3, 3711614.0, 107.2, 121.8, 0.0); (433902.3,
3711664.0, 105.4, 105.4, 0.0);
  (433952.3, 3711664.0, 106.3, 106.3, 0.0); (434002.3,
3711664.0, 108.1, 108.1, 0.0);
  (434052.3, 3711664.0, 110.9, 110.9, 0.0); (434102.3,
3711664.0, 112.8, 112.8, 0.0);
  (434302.3, 3711664.0, 115.8, 115.8, 0.0); (434352.3,
3711664.0, 115.7, 115.7, 0.0);
  (434852.3, 3711664.0, 111.4, 119.7, 0.0); (434902.3,
3711664.0, 117.2, 119.7, 0.0);
  (434952.3, 3711664.0, 118.5, 119.2, 0.0); (435002.3,
3711664.0, 113.7, 119.6, 0.0);
  (435052.3, 3711664.0, 109.5, 119.6, 0.0); (435102.3,
3711664.0, 107.1, 119.0, 0.0);
  (435152.3, 3711664.0, 105.8, 105.8, 0.0); (435202.3,
3711664.0, 102.5, 124.0, 0.0);
  (435252.3, 3711664.0, 103.0, 121.8, 0.0); (435302.3,
3711664.0, 112.3, 121.8, 0.0);
  (435352.3, 3711664.0, 115.4, 121.8, 0.0); (435402.3,
3711664.0, 116.7, 121.8, 0.0);
  (435452.3, 3711664.0, 111.0, 121.8, 0.0); (433852.3,
3711414.0, 87.8, 119.7, 0.0);
  (435052.3, 3711414.0, 90.0, 119.7, 0.0); (435102.3,
3711414.0, 95.5, 95.5, 0.0);
  (435152.3, 3711414.0, 96.3, 96.3, 0.0); (435202.3,
3711414.0, 99.0, 99.0, 0.0);
  (435252.3, 3711414.0, 100.9, 100.9, 0.0); (435302.3,
3711414.0, 101.1, 101.1, 0.0);
  (435352.3, 3711414.0, 98.3, 101.3, 0.0); (434052.3,
3711464.0, 117.9, 117.9, 0.0);
  (434102.3, 3711464.0, 119.1, 119.1, 0.0); (434852.3,
3711464.0, 103.0, 115.5, 0.0);
  (434902.3, 3711464.0, 96.0, 119.7, 0.0); (434952.3,
3711464.0, 89.8, 119.7, 0.0);
  (435002.3, 3711464.0, 88.8, 119.7, 0.0); (435052.3,
3711464.0, 89.4, 119.7, 0.0);
  (435102.3, 3711464.0, 93.4, 119.2, 0.0); (435152.3,
3711464.0, 96.2, 96.2, 0.0);
  (435202.3, 3711464.0, 96.7, 96.7, 0.0); (435252.3,
3711464.0, 98.7, 98.7, 0.0);
  (435302.3, 3711464.0, 100.8, 100.8, 0.0); (435352.3,
3711464.0, 98.8, 119.2, 0.0);
  (435402.3, 3711464.0, 95.7, 121.8, 0.0); (433952.3,
3711514.0, 111.6, 114.5, 0.0);
  (434002.3, 3711514.0, 114.8, 114.8, 0.0); (434052.3,
3711514.0, 116.7, 116.7, 0.0);
  (434852.3, 3711514.0, 109.4, 109.4, 0.0); (434902.3,
3711514.0, 108.2, 115.5, 0.0);
  (434952.3, 3711514.0, 104.0, 119.7, 0.0); (435002.3,
3711514.0, 97.9, 119.7, 0.0);
  (435052.3, 3711514.0, 90.9, 119.7, 0.0); (435102.3,
3711514.0, 91.0, 119.7, 0.0);
  (435152.3, 3711514.0, 92.9, 119.6, 0.0); (435202.3,
3711514.0, 96.4, 114.3, 0.0);
  (435252.3, 3711514.0, 96.9, 121.8, 0.0); (435302.3,
3711514.0, 97.7, 121.8, 0.0);
  (435352.3, 3711514.0, 97.7, 121.8, 0.0); (433902.3,
3711564.0, 106.3, 106.3, 0.0);
  (433952.3, 3711564.0, 109.7, 114.0, 0.0); (434002.3,
3711564.0, 113.0, 115.9, 0.0);
  (434052.3, 3711564.0, 115.3, 115.3, 0.0); (434852.3,
3711564.0, 112.9, 115.5, 0.0);
  (434902.3, 3711564.0, 112.1, 114.0, 0.0); (434952.3,
3711564.0, 109.7, 115.2, 0.0);
  (435002.3, 3711564.0, 107.1, 119.2, 0.0); (435052.3,
3711564.0, 102.0, 119.7, 0.0);
  (435102.3, 3711564.0, 95.1, 124.3, 0.0); (435152.3,
3711564.0, 92.8, 124.3, 0.0);
  (435202.3, 3711564.0, 93.8, 121.8, 0.0); (435252.3,
3711564.0, 96.5, 121.8, 0.0);
  (435302.3, 3711564.0, 99.9, 121.8, 0.0); (435352.3,

3711814.0,   110.2,   110.2,   0.0);
     (434002.3, 3711814.0,   111.2,   111.2,   0.0);   (434052.3,
3711814.0,   112.9,   112.9,   0.0);
     (434102.3, 3711814.0,   114.3,   114.3,   0.0);   (434152.3,
3711814.0,   115.1,   115.1,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (434352.3, 3711814.0,   115.8,   115.8,   0.0);   (434952.3,
3711814.0,   113.8,   113.8,   0.0);
     (435002.3, 3711814.0,   116.0,   123.5,   0.0);   (435052.3,
3711814.0,   119.2,   124.3,   0.0);
     (435102.3, 3711814.0,   119.6,   124.3,   0.0);   (435152.3,
3711814.0,   116.7,   124.0,   0.0);
     (435202.3, 3711814.0,   113.4,   124.0,   0.0);   (435252.3,
3711814.0,   112.8,   112.8,   0.0);
     (435302.3, 3711814.0,   110.4,   121.5,   0.0);   (435352.3,
3711814.0,   112.8,   121.5,   0.0);
     (435402.3, 3711814.0,   117.5,   121.1,   0.0);   (435452.3,
3711814.0,   120.5,   120.5,   0.0);
     (435502.3, 3711814.0,   119.9,   119.9,   0.0);   (435552.3,
3711814.0,   117.6,   117.6,   0.0);
     (433802.3, 3711864.0,   104.4,   104.4,   0.0);   (433852.3,
3711864.0,   106.6,   108.4,   0.0);
     (433902.3, 3711864.0,   109.4,   109.4,   0.0);   (433952.3,
3711864.0,   109.9,   109.9,   0.0);
     (434002.3, 3711864.0,   111.1,   111.1,   0.0);   (434052.3,
3711864.0,   113.6,   113.6,   0.0);
     (434102.3, 3711864.0,   115.2,   115.2,   0.0);   (434152.3,
3711864.0,   115.8,   115.8,   0.0);
     (434902.3, 3711864.0,   101.3,   124.3,   0.0);   (434952.3,
3711864.0,   108.5,   124.3,   0.0);
     (435002.3, 3711864.0,   115.7,   124.3,   0.0);   (435052.3,
3711864.0,   122.5,   122.5,   0.0);
     (435102.3, 3711864.0,   124.0,   124.0,   0.0);   (435152.3,
3711864.0,   121.9,   121.9,   0.0);
     (435202.3, 3711864.0,   116.4,   123.6,   0.0);   (435252.3,
3711864.0,   113.2,   123.6,   0.0);
     (435302.3, 3711864.0,   113.8,   116.4,   0.0);   (435352.3,
3711864.0,   115.3,   115.3,   0.0);
     (435402.3, 3711864.0,   117.3,   117.3,   0.0);   (435452.3,
3711714.0,   105.9,   105.9,   0.0);
     (433902.3, 3711714.0,   106.6,   106.6,   0.0);   (433952.3,
3711714.0,   106.9,   106.9,   0.0);
     (434002.3, 3711714.0,   106.6,   106.6,   0.0);   (434052.3,
3711714.0,   108.2,   112.8,   0.0);
     (434102.3, 3711714.0,   113.0,   113.0,   0.0);   (434152.3,
3711714.0,   113.9,   113.9,   0.0);
     (434202.3, 3711714.0,   114.1,   114.1,   0.0);   (434252.3,
3711714.0,   114.4,   114.4,   0.0);
     (434302.3, 3711714.0,   114.9,   114.9,   0.0);   (434352.3,
3711714.0,   115.2,   115.2,   0.0);
     (434902.3, 3711714.0,   115.0,   119.6,   0.0);   (434952.3,
3711714.0,   119.7,   119.7,   0.0);
     (435002.3, 3711714.0,   118.9,   118.9,   0.0);   (435052.3,
3711714.0,   114.7,   118.7,   0.0);
     (435102.3, 3711714.0,   108.2,   124.3,   0.0);   (435152.3,
3711714.0,   107.5,   124.3,   0.0);
     (435202.3, 3711714.0,   107.5,   123.0,   0.0);   (435252.3,
3711714.0,   106.5,   121.8,   0.0);
     (435302.3, 3711714.0,   111.8,   121.8,   0.0);   (435352.3,
3711714.0,   117.3,   121.8,   0.0);
     (435402.3, 3711714.0,   121.3,   121.3,   0.0);   (435452.3,
3711714.0,   117.3,   120.9,   0.0);
     (433752.3, 3711764.0,   106.0,   106.0,   0.0);   (433802.3,
3711764.0,   106.2,   106.2,   0.0);
     (433852.3, 3711764.0,   106.3,   106.3,   0.0);   (433902.3,
3711764.0,   107.5,   107.5,   0.0);
     (433952.3, 3711764.0,   109.3,   109.3,   0.0);   (434002.3,
3711764.0,   109.5,   109.5,   0.0);
     (434052.3, 3711764.0,   110.6,   110.6,   0.0);   (434102.3,
3711764.0,   113.3,   113.3,   0.0);
     (434152.3, 3711764.0,   113.3,   113.3,   0.0);   (434302.3,
3711764.0,   115.3,   115.3,   0.0);
     (434352.3, 3711764.0,   115.4,   115.4,   0.0);   (434902.3,
3711764.0,   112.8,   119.7,   0.0);
     (434952.3, 3711764.0,   116.5,   118.8,   0.0);   (435002.3,
3711764.0,   118.5,   118.5,   0.0);
     (435052.3, 3711764.0,   117.4,   117.4,   0.0);   (435102.3,
3711764.0,   115.6,   115.6,   0.0);
     (435152.3, 3711764.0,   112.0,   124.3,   0.0);   (435202.3,
3711764.0,   111.5,   123.0,   0.0);
     (435252.3, 3711764.0,   111.3,   111.3,   0.0);   (435302.3,
3711764.0,   110.8,   121.8,   0.0);
     (435352.3, 3711764.0,   115.7,   121.6,   0.0);   (435402.3,
3711764.0,   121.1,   121.1,   0.0);
     (435452.3, 3711764.0,   120.8,   120.8,   0.0);   (435502.3,
3711764.0,   118.0,   120.6,   0.0);
     (433802.3, 3711814.0,   105.1,   105.1,   0.0);   (433852.3,
3711814.0,   107.0,   107.0,   0.0);
     (433902.3, 3711814.0,   109.0,   109.0,   0.0);   (433952.3,

3712014.0,   114.8,   124.3,   0.0);
     (435102.3, 3712014.0,   118.9,   124.8,   0.0);   (435152.3,
3712014.0,   124.4,   124.4,   0.0);
     (435202.3, 3712014.0,   125.0,   125.0,   0.0);   (435252.3,
3712014.0,   124.1,   124.1,   0.0);
     (435302.3, 3712014.0,   118.4,   124.4,   0.0);   (435352.3,
3712014.0,   121.2,   121.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (433602.3, 3712064.0,   85.3,   85.3,   0.0);   (433652.3,
3712064.0,   89.5,   89.5,   0.0);
     (433702.3, 3712064.0,   94.0,   94.0,   0.0);   (433802.3,
3712064.0,   99.8,   104.8,   0.0);
     (433852.3, 3712064.0,   105.0,   105.0,   0.0);   (433902.3,
3712064.0,   105.6,   105.6,   0.0);
     (433952.3, 3712064.0,   105.7,   105.7,   0.0);   (434002.3,
3712064.0,   108.9,   108.9,   0.0);
     (434052.3, 3712064.0,   108.9,   108.9,   0.0);   (434852.3,
3712064.0,   84.4,   125.5,   0.0);
     (434902.3, 3712064.0,   91.0,   125.5,   0.0);   (434952.3,
3712064.0,   93.8,   125.5,   0.0);
     (435002.3, 3712064.0,   95.5,   125.5,   0.0);   (435052.3,
3712064.0,   108.5,   125.2,   0.0);
     (435102.3, 3712064.0,   117.4,   124.8,   0.0);   (435152.3,
3712064.0,   122.1,   122.6,   0.0);
     (435202.3, 3712064.0,   125.2,   125.2,   0.0);   (435252.3,
3712064.0,   122.2,   125.0,   0.0);
     (435302.3, 3712064.0,   117.2,   125.5,   0.0);   (433752.3,
3712114.0,   98.4,   98.4,   0.0);
     (433802.3, 3712114.0,   101.2,   101.2,   0.0);   (433852.3,
3712114.0,   104.3,   104.3,   0.0);
     (433902.3, 3712114.0,   104.6,   104.6,   0.0);   (433952.3,
3712114.0,   104.7,   104.7,   0.0);
     (434002.3, 3712114.0,   108.0,   108.0,   0.0);   (434052.3,
3712114.0,   107.9,   107.9,   0.0);
     (434852.3, 3712114.0,   83.1,   125.5,   0.0);   (434902.3,
3712114.0,   85.4,   125.5,   0.0);
     (434952.3, 3712114.0,   90.0,   125.5,   0.0);   (435002.3,
3712114.0,   95.7,   125.5,   0.0);
     (435052.3, 3712114.0,   102.7,   125.5,   0.0);   (435102.3,
3711864.0,   119.1,   119.1,   0.0);
     (435502.3, 3711864.0,   118.8,   118.8,   0.0);   (433802.3,
3711914.0,   103.6,   103.6,   0.0);
     (433852.3, 3711914.0,   105.8,   109.9,   0.0);   (433902.3,
3711914.0,   109.7,   109.7,   0.0);
     (433952.3, 3711914.0,   109.7,   109.7,   0.0);   (434002.3,
3711914.0,   110.7,   110.7,   0.0);
     (434052.3, 3711914.0,   113.0,   113.0,   0.0);   (434102.3,
3711914.0,   114.9,   114.9,   0.0);
     (434152.3, 3711914.0,   115.6,   115.6,   0.0);   (434902.3,
3711914.0,   96.4,   124.8,   0.0);
     (434952.3, 3711914.0,   102.8,   124.3,   0.0);   (435002.3,
3711914.0,   114.3,   124.3,   0.0);
     (435052.3, 3711914.0,   117.7,   124.2,   0.0);   (435102.3,
3711914.0,   123.8,   123.8,   0.0);
     (435152.3, 3711914.0,   123.0,   123.0,   0.0);   (435202.3,
3711914.0,   121.0,   121.0,   0.0);
     (435252.3, 3711914.0,   116.7,   119.4,   0.0);   (435302.3,
3711914.0,   116.6,   121.6,   0.0);
     (435352.3, 3711914.0,   119.3,   119.3,   0.0);   (435402.3,
3711914.0,   119.6,   119.6,   0.0);
     (435452.3, 3711914.0,   118.4,   118.4,   0.0);   (433802.3,
3711964.0,   102.1,   102.1,   0.0);
     (433852.3, 3711964.0,   105.4,   110.1,   0.0);   (433902.3,
3711964.0,   110.0,   110.0,   0.0);
     (433952.3, 3711964.0,   109.1,   109.1,   0.0);   (434002.3,
3711964.0,   109.0,   109.0,   0.0);
     (434052.3, 3711964.0,   110.7,   110.7,   0.0);   (434102.3,
3711964.0,   113.0,   113.0,   0.0);
     (434902.3, 3711964.0,   94.7,   125.0,   0.0);   (434952.3,
3711964.0,   100.8,   124.8,   0.0);
     (435002.3, 3711964.0,   106.7,   124.8,   0.0);   (435052.3,
3711964.0,   116.5,   123.9,   0.0);
     (435102.3, 3711964.0,   121.8,   121.8,   0.0);   (435152.3,
3711964.0,   123.7,   123.7,   0.0);
     (435202.3, 3711964.0,   122.4,   122.4,   0.0);   (435252.3,
3711964.0,   117.7,   125.5,   0.0);
     (435302.3, 3711964.0,   119.9,   121.6,   0.0);   (435352.3,
3711964.0,   121.6,   121.6,   0.0);
     (433602.3, 3712014.0,   86.4,   86.4,   0.0);   (433802.3,
3712014.0,   100.4,   110.1,   0.0);
     (433852.3, 3712014.0,   104.3,   110.1,   0.0);   (433902.3,
3712014.0,   108.9,   108.9,   0.0);
     (433952.3, 3712014.0,   108.1,   108.1,   0.0);   (434002.3,
3712014.0,   108.4,   108.4,   0.0);
     (434052.3, 3712014.0,   109.7,   109.7,   0.0);   (434102.3,
3712014.0,   110.2,   110.2,   0.0);
     (434902.3, 3712014.0,   93.7,   125.2,   0.0);   (434952.3,
3712014.0,   99.5,   125.2,   0.0);
     (435002.3, 3712014.0,   100.1,   125.5,   0.0);   (435052.3,

3712314.0, 102.6, 102.6, 0.0);
(434052.3, 3712314.0, 102.4, 102.4, 0.0); (435002.3,
3712314.0, 87.8, 125.5, 0.0);
(435052.3, 3712314.0, 88.9, 125.5, 0.0); (435102.3,
3712314.0, 91.1, 125.5, 0.0);
(435152.3, 3712314.0, 98.0, 125.2, 0.0); (435202.3,
3712314.0, 99.7, 125.2, 0.0);
(433902.3, 3712364.0, 97.2, 97.2, 0.0); (433952.3,
3712364.0, 99.4, 99.4, 0.0);
*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal *** 07/30/24
*** AERMET - VERSION 22112 *** ***
*** 11:24:19

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(434002.3, 3712364.0, 100.8, 100.8, 0.0); (435052.3,
3712364.0, 88.7, 125.2, 0.0);
(435102.3, 3712364.0, 91.0, 125.2, 0.0); (435152.3,
3712364.0, 97.0, 117.8, 0.0);
(435202.3, 3712364.0, 99.2, 118.2, 0.0); (435102.3,
3712414.0, 92.0, 116.9, 0.0);
(435152.3, 3712414.0, 95.8, 117.5, 0.0); (435202.3,
3712414.0, 98.3, 117.8, 0.0);
(435152.3, 3712464.0, 94.9, 116.7, 0.0); (435202.3,
3712464.0, 96.8, 117.5, 0.0);
(434741.1, 3711168.4, 105.0, 105.0, 0.0); (434716.3,
3711074.4, 106.2, 106.2, 0.0);
(434678.2, 3711011.5, 105.6, 105.6, 0.0); (434657.8,
3710979.6, 105.4, 105.4, 0.0);
(434615.2, 3710921.1, 104.6, 104.6, 0.0); (434571.5,
3710874.2, 103.7, 105.8, 0.0);
(434560.5, 3710848.4, 104.3, 104.3, 0.0); (434528.6,
3710778.5, 104.8, 104.8, 0.0);
(434522.5, 3710725.7, 105.1, 105.1, 0.0); (434488.1,
3710708.5, 103.7, 105.4, 0.0);
(434479.5, 3710677.9, 106.3, 106.3, 0.0); (434470.9,
3710645.9, 105.9, 106.9, 0.0);
(434423.1, 3710595.6, 95.1, 179.9, 0.0); (434405.9,
3710552.7, 94.0, 179.9, 0.0);
(434413.2, 3710531.8, 94.5, 179.9, 0.0); (434456.2,
3710460.7, 86.4, 179.9, 0.0);
(434606.0, 3710568.5, 91.6, 179.9, 0.0); (434690.0,
3710616.5, 89.4, 179.9, 0.0);
(434797.9, 3710732.4, 88.1, 179.9, 0.0); (434889.8,
3712114.0, 111.7, 125.2, 0.0);
(435152.3, 3712114.0, 117.9, 125.2, 0.0); (435202.3,
3712114.0, 119.7, 125.2, 0.0);
(435252.3, 3712114.0, 118.1, 125.2, 0.0); (435302.3,
3712114.0, 117.3, 117.3, 0.0);
(433752.3, 3712164.0, 98.2, 98.2, 0.0); (433802.3,
3712164.0, 101.3, 103.1, 0.0);
(433852.3, 3712164.0, 103.7, 103.7, 0.0); (433902.3,
3712164.0, 103.4, 103.4, 0.0);
(433952.3, 3712164.0, 103.3, 103.3, 0.0); (434002.3,
3712164.0, 106.4, 106.4, 0.0);
(434052.3, 3712164.0, 106.3, 106.3, 0.0); (434852.3,
3712164.0, 82.5, 125.5, 0.0);
(434902.3, 3712164.0, 83.4, 125.5, 0.0); (434952.3,
3712164.0, 87.8, 125.5, 0.0);
(435002.3, 3712164.0, 94.1, 125.5, 0.0); (435052.3,
3712164.0, 101.0, 125.5, 0.0);
(435102.3, 3712164.0, 102.4, 125.5, 0.0); (435152.3,
3712164.0, 109.3, 125.5, 0.0);
(435202.3, 3712164.0, 112.5, 125.2, 0.0); (435252.3,
3712164.0, 112.7, 125.2, 0.0);
(433752.3, 3712214.0, 97.4, 97.4, 0.0); (433802.3,
3712214.0, 98.0, 103.1, 0.0);
(433852.3, 3712214.0, 98.6, 103.8, 0.0); (433902.3,
3712214.0, 99.3, 102.0, 0.0);
(433952.3, 3712214.0, 102.1, 102.1, 0.0); (434002.3,
3712214.0, 105.2, 105.2, 0.0);
(434052.3, 3712214.0, 104.7, 104.7, 0.0); (434902.3,
3712214.0, 82.5, 125.5, 0.0);
(434952.3, 3712214.0, 89.2, 125.5, 0.0); (435002.3,
3712214.0, 90.5, 125.5, 0.0);
(435052.3, 3712214.0, 93.5, 125.5, 0.0); (435102.3,
3712214.0, 99.4, 125.5, 0.0);
(435152.3, 3712214.0, 100.8, 125.5, 0.0); (435202.3,
3712214.0, 101.3, 125.5, 0.0);
(435252.3, 3712214.0, 103.1, 125.5, 0.0); (433802.3,
3712264.0, 96.2, 96.2, 0.0);
(433852.3, 3712264.0, 96.5, 96.5, 0.0); (433902.3,
3712264.0, 96.4, 103.9, 0.0);
(433952.3, 3712264.0, 101.5, 103.9, 0.0); (434002.3,
3712264.0, 103.6, 103.6, 0.0);
(434052.3, 3712264.0, 103.4, 103.4, 0.0); (434952.3,
3712264.0, 88.0, 125.5, 0.0);
(435002.3, 3712264.0, 89.2, 125.5, 0.0); (435052.3,
3712264.0, 90.5, 125.5, 0.0);
(435102.3, 3712264.0, 92.1, 125.5, 0.0); (435152.3,
3712264.0, 99.1, 125.5, 0.0);
(435202.3, 3712264.0, 100.3, 125.5, 0.0); (433902.3,
3712314.0, 95.7, 103.6, 0.0);
(433952.3, 3712314.0, 100.2, 103.6, 0.0); (434002.3,

3711758.7, 113.8, 113.8, 0.0);
  (434359.1, 3711860.3, 113.6, 115.5, 0.0); (434351.2,
3711629.7, 115.4, 115.4, 0.0);
  (434269.2, 3711653.2, 115.7, 115.7, 0.0); (434249.6,
3711700.1, 114.4, 114.4, 0.0);
  (434140.2, 3711707.9, 113.8, 113.8, 0.0); (434115.5,
3711671.5, 113.2, 113.2, 0.0);
  (434110.3, 3711583.1, 113.1, 113.1, 0.0); (434089.5,
3711551.8, 115.8, 115.8, 0.0);
  (434067.0, 3711501.6, 117.2, 117.2, 0.0); (434115.5,
3711453.0, 119.5, 119.5, 0.0);
*** AERMOD - VERSION 23132 *** *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal *** 07/30/24
 *** AERMET - VERSION 22112 *** ***
                    *** 11:24:19

                              PAGE 14
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

  (434184.8, 3711446.1, 118.3, 118.3, 0.0); (434223.0,
3711397.5, 120.1, 120.1, 0.0);
  (434177.9, 3711392.3, 120.1, 120.1, 0.0); (434056.5,
3711440.9, 119.3, 119.3, 0.0);
  (434080.8, 3711366.3, 125.4, 125.4, 0.0); (434113.8,
3711243.2, 124.4, 124.4, 0.0);
  (434169.2, 3711172.1, 121.5, 121.5, 0.0); (434106.8,
3711154.8, 121.6, 121.6, 0.0);
  (434075.6, 3711104.5, 120.3, 120.3, 0.0); (434072.1,
3711016.1, 117.9, 117.9, 0.0);
  (434094.7, 3710967.5, 116.6, 116.6, 0.0); (434034.0,
3710896.4, 112.9, 112.9, 0.0);
  (434025.3, 3710835.8, 117.0, 117.0, 0.0); (433997.6,
3710764.7, 120.7, 120.7, 0.0);
  (434028.8, 3710710.9, 122.2, 122.2, 0.0); (433976.8,
3710712.6, 121.9, 121.9, 0.0);
  (433938.6, 3710658.9, 118.5, 118.5, 0.0); (433947.3,
3710612.1, 117.0, 117.0, 0.0);
  (433947.3, 3710573.9, 117.2, 117.2, 0.0); (433942.1,
3710527.1, 117.4, 117.4, 0.0);
  (433940.4, 3710471.6, 116.6, 116.6, 0.0); (433924.8,
3710400.5, 116.5, 116.5, 0.0);
  (433876.2, 3710230.6, 109.3, 112.0, 0.0); (433685.5,
3710253.2, 101.5, 241.7, 0.0);
  (433744.5, 3710572.2, 103.8, 117.7, 0.0); (433793.0,
3710769.9, 106.4, 122.0, 0.0);
  (433772.2, 3710867.0, 97.6, 122.0, 0.0); (433825.9,
3710824.3, 92.4, 179.9, 0.0);
  (435035.6, 3711006.1, 92.8, 109.9, 0.0); (434959.7,
3711068.1, 101.4, 109.9, 0.0);
  (434833.8, 3711150.0, 106.8, 108.0, 0.0); (435104.5,
3711163.1, 98.9, 102.7, 0.0);
  (435039.5, 3711148.7, 103.9, 103.9, 0.0); (434986.1,
3711184.8, 102.4, 102.4, 0.0);
  (434937.0, 3711226.6, 97.7, 97.7, 0.0); (434874.9,
3711265.6, 89.6, 109.9, 0.0);
  (434831.6, 3711306.0, 81.8, 119.7, 0.0); (434801.3,
3711356.6, 81.6, 119.7, 0.0);
  (434857.6, 3711402.8, 85.7, 119.7, 0.0); (434818.6,
3711490.8, 109.7, 109.7, 0.0);
  (434804.2, 3711580.3, 109.3, 109.3, 0.0); (434838.8,
3711688.6, 109.7, 119.7, 0.0);
  (434882.1, 3711759.4, 111.9, 119.7, 0.0); (434926.9,
3711799.8, 112.2, 119.7, 0.0);
  (434880.7, 3711850.3, 100.8, 124.3, 0.0); (434872.0,
3712012.0, 93.1, 125.0, 0.0);
  (434807.1, 3712129.0, 82.3, 125.2, 0.0); (434822.9,
3712172.3, 80.5, 125.5, 0.0);
  (434892.9, 3712227.4, 81.6, 125.5, 0.0); (434967.6,
3712291.9, 87.1, 125.5, 0.0);
  (435045.8, 3712382.0, 88.5, 125.2, 0.0); (435112.0,
3712463.5, 93.5, 93.5, 0.0);
  (435173.2, 3712489.0, 96.2, 116.7, 0.0); (435227.5,
3712494.1, 98.7, 116.7, 0.0);
  (435227.5, 3712339.5, 100.4, 118.5, 0.0); (435244.5,
3712229.1, 102.0, 125.5, 0.0);
  (435292.1, 3712140.8, 117.1, 117.1, 0.0); (435319.2,
3712105.1, 116.9, 116.9, 0.0);
  (435368.5, 3711996.4, 121.6, 121.6, 0.0); (435560.4,
3711807.9, 117.1, 117.1, 0.0);
  (435563.8, 3711782.4, 117.7, 117.7, 0.0); (435516.3,
3711743.3, 115.8, 115.8, 0.0);
  (435458.5, 3711666.9, 111.3, 121.8, 0.0); (435385.5,
3711565.0, 101.5, 121.8, 0.0);
  (435361.7, 3711551.4, 100.5, 121.8, 0.0); (435431.3,
3711483.4, 94.2, 121.8, 0.0);
  (435354.9, 3711378.1, 95.7, 135.6, 0.0); (435213.9,
3711259.2, 96.9, 96.9, 0.0);
  (435147.7, 3711184.5, 98.1, 98.1, 0.0); (433929.2,
3712407.3, 95.9, 95.9, 0.0);
  (434034.7, 3712360.5, 100.7, 100.7, 0.0); (434081.6,
3712258.9, 103.2, 103.2, 0.0);
  (434097.2, 3712149.4, 106.6, 106.6, 0.0); (434097.2,
3712028.3, 110.0, 110.0, 0.0);
  (434155.9, 3711918.9, 115.5, 115.5, 0.0); (434175.4,
3711805.6, 113.3, 113.3, 0.0);
  (434194.9, 3711739.1, 113.6, 113.6, 0.0); (434265.3,

3710514.6, 89.2, 179.9, 0.0);
  (434549.9, 3710528.1, 89.2, 179.9, 0.0); (434568.6,
3710541.6, 90.5, 179.9, 0.0);
  (434587.3, 3710555.1, 90.9, 179.9, 0.0); (434627.0,
3710580.5, 90.8, 179.9, 0.0);
  (434648.0, 3710592.5, 88.8, 179.9, 0.0); (434669.0,
3710604.5, 89.0, 179.9, 0.0);
  (434705.4, 3710633.1, 89.7, 179.9, 0.0); (434720.8,
3710649.6, 89.5, 179.9, 0.0);
  (434736.2, 3710666.2, 89.3, 179.9, 0.0); (434751.6,
3710682.7, 89.2, 179.9, 0.0);
  (434767.0, 3710699.3, 88.6, 179.9, 0.0); (434782.5,
3710715.8, 88.8, 179.9, 0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                 (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

  (434813.2, 3710747.7, 88.3, 179.9, 0.0); (434828.5,
3710763.0, 89.6, 179.9, 0.0);
  (434843.8, 3710778.4, 91.4, 179.9, 0.0); (434859.1,
3710793.7, 92.0, 179.9, 0.0);
  (434874.5, 3710809.0, 92.3, 179.9, 0.0); (434904.4,
3710842.5, 92.7, 179.9, 0.0);
  (434919.0, 3710860.7, 93.0, 177.0, 0.0); (434933.5,
3710878.9, 93.4, 175.7, 0.0);
  (434948.1, 3710897.0, 93.7, 174.9, 0.0); (434962.7,
3710915.2, 93.7, 174.6, 0.0);
  (434977.3, 3710933.4, 93.8, 174.0, 0.0); (434991.9,
3710951.6, 94.0, 174.0, 0.0);
  (435006.5, 3710969.8, 94.0, 172.8, 0.0); (435021.1,
3710988.0, 94.4, 109.0, 0.0);
  (435016.7, 3711021.6, 94.5, 109.9, 0.0); (434997.7,
3711037.1, 96.6, 109.9, 0.0);
  (434978.7, 3711052.6, 100.7, 108.0, 0.0); (434941.7,
3711079.8, 103.4, 109.9, 0.0);
  (434923.8, 3711091.5, 104.8, 109.9, 0.0); (434905.8,
3711103.2, 106.0, 109.9, 0.0);
  (434887.8, 3711114.9, 107.5, 107.5, 0.0); (434869.8,
3711126.6, 107.2, 109.6, 0.0);
  (434851.8, 3711138.3, 107.3, 107.3, 0.0); (434810.7,
3711154.6, 107.0, 107.0, 0.0);
  (434787.5, 3711159.2, 107.0, 107.0, 0.0); (434764.3,
3710889.5, 97.2, 122.0, 0.0);
  (433817.3, 3710971.0, 107.8, 107.8, 0.0); (433753.1,
3711017.8, 108.7, 113.6, 0.0);
  (433751.4, 3711154.8, 114.7, 120.8, 0.0); (433827.7,
3711257.1, 119.2, 125.8, 0.0);
  (433900.5, 3711328.2, 125.1, 125.1, 0.0); (433992.4,
3711355.9, 124.4, 124.4, 0.0);
  (434008.0, 3711480.8, 115.6, 115.6, 0.0); (433888.4,
3711550.1, 105.9, 105.9, 0.0);
  (433838.1, 3711728.7, 106.2, 106.2, 0.0); (433747.9,
3711737.4, 106.3, 106.3, 0.0);
  (433720.2, 3711765.1, 105.3, 105.3, 0.0); (433782.6,
3711832.7, 104.6, 104.6, 0.0);
  (433794.7, 3711921.2, 103.5, 103.5, 0.0); (433756.6,
3712085.9, 98.5, 98.5, 0.0);
  (433590.1, 3712002.6, 85.6, 113.2, 0.0); (433586.7,
3712065.1, 84.0, 113.2, 0.0);
  (433728.8, 3712120.6, 97.8, 97.8, 0.0); (433732.3,
3712210.7, 96.1, 98.0, 0.0);
  (433787.8, 3712266.2, 95.2, 96.8, 0.0); (433878.0,
3712274.9, 95.4, 95.4, 0.0);
  (433874.5, 3712330.4, 95.0, 95.0, 0.0); (434734.9,
3711144.9, 106.8, 107.3, 0.0);
  (434728.7, 3711121.4, 106.2, 106.2, 0.0); (434722.5,
3711097.9, 106.1, 106.1, 0.0);
  (434703.6, 3711053.5, 105.7, 106.5, 0.0); (434690.9,
3711032.5, 105.6, 105.6, 0.0);
  (434668.0, 3710995.5, 105.4, 105.4, 0.0); (434643.6,
3710960.1, 105.1, 105.1, 0.0);
  (434629.4, 3710940.6, 105.1, 105.1, 0.0); (434600.7,
3710905.4, 104.5, 106.1, 0.0);
  (434586.1, 3710889.8, 104.4, 104.4, 0.0); (434566.0,
3710861.3, 104.0, 105.8, 0.0);
  (434552.5, 3710830.9, 104.5, 104.5, 0.0); (434544.5,
3710813.4, 104.0, 105.4, 0.0);
  (434536.6, 3710796.0, 104.2, 104.2, 0.0); (434526.5,
3710760.9, 104.8, 104.8, 0.0);
  (434524.5, 3710743.3, 104.8, 105.2, 0.0); (434505.3,
3710717.1, 105.1, 105.1, 0.0);
  (434483.8, 3710693.2, 105.1, 105.1, 0.0); (434475.2,
3710661.9, 106.5, 106.5, 0.0);
  (434455.0, 3710629.2, 102.6, 168.8, 0.0); (434439.0,
3710612.4, 97.6, 179.9, 0.0);
  (434414.5, 3710574.2, 94.2, 179.9, 0.0); (434424.0,
3710514.0, 93.9, 179.9, 0.0);
  (434434.7, 3710496.2, 92.3, 179.9, 0.0); (434445.5,
3710478.4, 89.0, 179.9, 0.0);
  (434474.9, 3710474.1, 87.7, 179.9, 0.0); (434493.7,
3710487.6, 88.3, 179.9, 0.0);
  (434512.4, 3710501.1, 88.6, 179.9, 0.0); (434531.1,

3712310.0,   87.0,   125.5,   0.0);
     (434998.9, 3712328.0,   87.1,   125.5,   0.0);   (435014.5,
3712346.0,   87.5,   125.2,   0.0);
     (435030.1, 3712364.0,   88.0,   125.2,   0.0);   (435059.0,
3712398.3,   88.5,   125.2,   0.0);
     (435072.3, 3712414.6,   89.3,   116.9,   0.0);   (435085.5,
3712430.9,   90.7,   116.2,   0.0);
     (435098.8, 3712447.2,   92.9,   92.9,   0.0);   (435132.4,
3712472.0,   94.4,   116.2,   0.0);
     (435152.8, 3712480.5,   95.3,   116.2,   0.0);   (435191.3,
3712490.7,   96.7,   116.7,   0.0);
     (435209.4, 3712492.4,   97.2,   116.8,   0.0);   (435227.5,
3712472.0,   98.4,   116.9,   0.0);
     (435227.5, 3712449.9,   98.8,   117.5,   0.0);   (435227.5,
3712427.8,   99.4,   117.7,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (435227.5, 3712405.8,   100.0,   117.8,   0.0);   (435227.5,
3712383.7,   100.2,   118.2,   0.0);
     (435227.5, 3712361.6,   100.3,   118.5,   0.0);   (435230.9,
3712317.4,   100.6,   118.5,   0.0);
     (435234.3, 3712295.3,   100.7,   125.2,   0.0);   (435237.7,
3712273.3,   101.3,   125.5,   0.0);
     (435241.1, 3712251.2,   101.8,   125.5,   0.0);   (435254.0,
3712211.4,   103.5,   125.5,   0.0);
     (435263.5, 3712193.8,   106.5,   125.5,   0.0);   (435273.0,
3712176.1,   111.9,   125.2,   0.0);
     (435282.6, 3712158.4,   116.6,   117.1,   0.0);   (435305.7,
3712122.9,   117.2,   117.2,   0.0);
     (435329.1, 3712083.4,   116.5,   116.5,   0.0);   (435339.0,
3712061.6,   116.2,   120.2,   0.0);
     (435348.8, 3712039.9,   118.7,   118.7,   0.0);   (435358.7,
3712018.1,   121.0,   121.0,   0.0);
     (435386.0, 3711979.3,   121.1,   121.1,   0.0);   (435403.4,
3711962.1,   120.2,   120.2,   0.0);
     (435420.8, 3711945.0,   119.4,   119.4,   0.0);   (435438.3,
3711927.8,   118.8,   118.8,   0.0);
     (435455.8, 3711910.7,   118.5,   118.5,   0.0);   (435473.2,
3711893.6,   118.3,   118.3,   0.0);
     (435490.6, 3711876.4,   119.4,   119.4,   0.0);   (435508.1,
3711163.8,   106.5,   106.5,   0.0);
     (435082.8, 3711158.3,   100.9,   102.7,   0.0);   (435061.1,
3711153.5,   102.8,   102.8,   0.0);
     (435021.7, 3711160.7,   103.7,   103.7,   0.0);   (435003.9,
3711172.7,   103.8,   103.8,   0.0);
     (434969.7, 3711198.7,   100.0,   103.9,   0.0);   (434953.3,
3711212.7,   99.0,   99.0,   0.0);
     (434916.3, 3711239.6,   94.1,   109.6,   0.0);   (434895.6,
3711252.6,   90.9,   109.9,   0.0);
     (434860.5, 3711279.1,   86.5,   109.9,   0.0);   (434846.0,
3711292.6,   83.1,   115.5,   0.0);
     (434821.5, 3711322.9,   81.5,   119.7,   0.0);   (434811.4,
3711339.7,   81.5,   119.7,   0.0);
     (434820.0, 3711372.0,   83.0,   119.7,   0.0);   (434838.8,
3711387.4,   83.9,   119.7,   0.0);
     (434847.8, 3711424.8,   90.3,   119.7,   0.0);   (434838.1,
3711446.8,   99.6,   115.5,   0.0);
     (434828.4, 3711468.8,   106.4,   109.7,   0.0);   (434815.0,
3711513.2,   109.6,   109.6,   0.0);
     (434811.4, 3711535.6,   109.5,   109.5,   0.0);   (434807.8,
3711558.0,   109.5,   109.5,   0.0);
     (434811.1, 3711602.0,   109.8,   109.8,   0.0);   (434818.0,
3711623.7,   110.4,   110.4,   0.0);
     (434825.0, 3711645.3,   110.1,   110.1,   0.0);   (434831.9,
3711667.0,   109.9,   119.7,   0.0);
     (434849.6, 3711706.3,   110.3,   119.7,   0.0);   (434860.5,
3711724.0,   110.6,   119.7,   0.0);
     (434871.3, 3711741.7,   111.7,   119.7,   0.0);   (434897.0,
3711772.8,   112.2,   119.7,   0.0);
     (434912.0, 3711786.3,   112.7,   119.7,   0.0);   (434911.5,
3711816.6,   107.6,   123.5,   0.0);
     (434896.1, 3711833.5,   103.2,   124.3,   0.0);   (434879.5,
3711873.4,   98.9,   124.3,   0.0);
     (434878.2, 3711896.5,   96.4,   124.3,   0.0);   (434877.0,
3711919.6,   94.2,   124.8,   0.0);
     (434875.7, 3711942.7,   93.7,   124.8,   0.0);   (434874.5,
3711965.8,   93.6,   124.8,   0.0);
     (434873.3, 3711988.9,   93.5,   124.8,   0.0);   (434861.2,
3712031.5,   89.6,   125.2,   0.0);
     (434850.4, 3712051.0,   85.6,   125.5,   0.0);   (434839.5,
3712070.5,   83.2,   125.5,   0.0);
     (434828.7, 3712090.0,   83.0,   125.5,   0.0);   (434817.9,
3712109.5,   82.6,   125.5,   0.0);
     (434815.0, 3712150.6,   81.6,   125.5,   0.0);   (434840.4,
3712186.1,   80.8,   125.5,   0.0);
     (434857.9, 3712199.8,   81.1,   125.5,   0.0);   (434875.4,
3712213.6,   81.4,   125.5,   0.0);
     (434911.6, 3712243.5,   82.2,   125.5,   0.0);   (434930.3,
3712259.7,   84.3,   125.5,   0.0);
     (434949.0, 3712275.8,   86.8,   125.5,   0.0);   (434983.3,

3712006.4,   110.4,   110.4,   0.0);
     (434120.7, 3711984.5,   111.5,   115.2,   0.0);   (434132.4,
3711962.7,   113.5,   115.2,   0.0);
     (434144.1, 3711940.8,   115.3,   115.3,   0.0);   (434159.8,
3711896.2,   115.7,   115.7,   0.0);
     (434163.7, 3711873.6,   115.8,   115.8,   0.0);   (434167.6,
3711850.9,   115.8,   115.8,   0.0);
     (434171.5, 3711828.2,   115.4,   115.4,   0.0);   (434181.9,
3711783.4,   111.7,   111.7,   0.0);
     (434188.4, 3711761.3,   112.6,   112.6,   0.0);   (434218.4,
3711745.7,   113.0,   113.0,   0.0);
     (434241.8, 3711752.2,   112.8,   112.8,   0.0);   (434280.9,
3711775.6,   114.5,   114.5,   0.0);
     (434296.5, 3711792.5,   115.3,   115.3,   0.0);   (434312.2,
3711809.5,   115.5,   115.5,   0.0);
     (434327.8, 3711826.4,   115.6,   115.6,   0.0);   (434343.4,
3711843.3,   115.2,   115.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     (434358.3, 3711837.2,   115.1,   115.1,   0.0);   (434357.5,
3711814.2,   115.4,   115.4,   0.0);
     (434356.7, 3711791.1,   115.3,   115.7,   0.0);   (434355.9,
3711768.1,   115.3,   115.3,   0.0);
     (434355.1, 3711745.0,   115.2,   115.2,   0.0);   (434354.4,
3711721.9,   115.2,   115.2,   0.0);
     (434353.6, 3711698.9,   115.3,   115.3,   0.0);   (434352.8,
3711675.8,   115.6,   115.6,   0.0);
     (434352.0, 3711652.8,   115.8,   115.8,   0.0);   (434330.7,
3711635.6,   115.6,   115.6,   0.0);
     (434310.2, 3711641.5,   116.0,   116.0,   0.0);   (434289.7,
3711647.3,   116.0,   116.0,   0.0);
     (434262.7, 3711668.8,   115.3,   115.3,   0.0);   (434256.1,
3711684.4,   114.8,   114.8,   0.0);
     (434227.8, 3711701.6,   114.2,   114.2,   0.0);   (434205.9,
3711703.2,   114.1,   114.1,   0.0);
     (434184.0, 3711704.8,   114.1,   114.1,   0.0);   (434162.1,
3711706.3,   114.0,   114.0,   0.0);
     (434127.9, 3711689.7,   113.5,   113.5,   0.0);   (434114.2,
3711649.4,   112.8,   112.8,   0.0);
     (434112.9, 3711627.3,   112.5,   112.5,   0.0);   (434111.6,
3711859.3,   118.8,   118.8,   0.0);
     (435525.5, 3711842.1,   118.6,   119.9,   0.0);   (435543.0,
3711825.0,   117.8,   118.7,   0.0);
     (435562.1, 3711795.1,   117.4,   117.4,   0.0);   (435548.0,
3711769.4,   117.1,   117.1,   0.0);
     (435532.1, 3711756.3,   116.6,   116.6,   0.0);   (435501.8,
3711724.2,   115.0,   120.7,   0.0);
     (435487.4, 3711705.1,   114.1,   120.9,   0.0);   (435473.0,
3711686.0,   112.7,   121.8,   0.0);
     (435446.4, 3711649.9,   109.6,   121.8,   0.0);   (435434.2,
3711632.9,   108.0,   121.8,   0.0);
     (435422.0, 3711615.9,   106.4,   121.8,   0.0);   (435409.8,
3711598.9,   104.6,   121.8,   0.0);
     (435397.7, 3711582.0,   103.5,   121.8,   0.0);   (435373.6,
3711558.2,   101.2,   121.8,   0.0);
     (435379.1, 3711534.4,   99.6,   121.8,   0.0);   (435396.5,
3711517.4,   97.8,   121.8,   0.0);
     (435413.9, 3711500.4,   95.7,   121.8,   0.0);   (435418.6,
3711465.9,   94.8,   121.8,   0.0);
     (435405.9, 3711448.3,   95.2,   121.8,   0.0);   (435393.1,
3711430.8,   94.9,   135.6,   0.0);
     (435380.4, 3711413.2,   95.0,   135.6,   0.0);   (435367.7,
3711395.7,   95.5,   135.6,   0.0);
     (435337.3, 3711363.3,   96.2,   134.3,   0.0);   (435319.7,
3711348.4,   96.3,   134.3,   0.0);
     (435302.0, 3711333.5,   96.4,   99.7,   0.0);   (435284.4,
3711318.7,   96.4,   96.4,   0.0);
     (435266.8, 3711303.8,   96.8,   96.8,   0.0);   (435249.2,
3711289.0,   96.8,   96.8,   0.0);
     (435231.6, 3711274.1,   97.1,   97.1,   0.0);   (435197.4,
3711240.6,   97.1,   97.1,   0.0);
     (435180.8, 3711221.9,   97.6,   97.6,   0.0);   (435164.3,
3711203.2,   98.0,   98.0,   0.0);
     (435126.1, 3711173.8,   98.3,   98.3,   0.0);   (433950.3,
3712398.0,   97.3,   100.1,   0.0);
     (433971.4, 3712388.6,   99.1,   100.1,   0.0);   (433992.5,
3712379.2,   100.4,   100.4,   0.0);
     (434013.6, 3712369.8,   100.2,   100.2,   0.0);   (434044.1,
3712340.1,   102.2,   102.2,   0.0);
     (434053.5, 3712319.8,   102.2,   102.2,   0.0);   (434062.9,
3712299.5,   102.5,   102.5,   0.0);
     (434072.2, 3712279.2,   103.1,   103.1,   0.0);   (434084.8,
3712237.0,   104.1,   104.1,   0.0);
     (434087.9, 3712215.1,   105.0,   105.0,   0.0);   (434091.0,
3712193.2,   105.5,   105.5,   0.0);
     (434094.1, 3712171.3,   106.0,   106.0,   0.0);   (434097.2,
3712125.2,   107.2,   107.2,   0.0);
     (434097.2, 3712101.0,   107.6,   107.6,   0.0);   (434097.2,
3712076.8,   108.5,   108.5,   0.0);
     (434097.2, 3712052.5,   109.4,   109.4,   0.0);   (434109.0,

3710635.5, 117.4, 117.4, 0.0);
  (433947.3, 3710593.0, 117.1, 117.1, 0.0); (433944.7,
3710550.5, 117.3, 117.3, 0.0);
  (433941.5, 3710508.6, 117.5, 117.5, 0.0); (433941.0,
3710490.1, 117.1, 117.1, 0.0);
  (433935.2, 3710447.9, 116.7, 116.7, 0.0); (433930.0,
3710424.2, 116.7, 116.7, 0.0);
  (433918.7, 3710379.3, 116.0, 116.0, 0.0); (433912.6,
3710358.1, 116.1, 116.1, 0.0);
  (433906.6, 3710336.8, 115.2, 115.2, 0.0); (433900.5,
3710315.6, 113.6, 113.6, 0.0);
  (433894.4, 3710294.3, 112.4, 112.4, 0.0); (433888.4,
3710273.1, 111.8, 111.8, 0.0);
  (433882.3, 3710251.9, 111.3, 112.0, 0.0); (433852.4,
3710233.4, 108.8, 108.8, 0.0);
  (433828.5, 3710236.3, 107.3, 111.1, 0.0); (433804.7,
3710239.1, 106.0, 106.0, 0.0);
  (433780.9, 3710241.9, 105.1, 105.1, 0.0); (433757.0,
3710244.7, 103.6, 106.0, 0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                          (METERS)

  (433733.2, 3710247.5, 102.6, 241.7, 0.0); (433709.3,
3710250.3, 102.4, 241.7, 0.0);
  (433690.0, 3710277.7, 102.4, 241.7, 0.0); (433694.6,
3710302.2, 102.7, 241.7, 0.0);
  (433699.1, 3710326.8, 102.9, 241.7, 0.0); (433703.6,
3710351.3, 103.0, 239.4, 0.0);
  (433708.2, 3710375.9, 102.8, 115.7, 0.0); (433712.7,
3710400.4, 102.8, 116.2, 0.0);
  (433717.2, 3710425.0, 102.9, 116.4, 0.0); (433721.8,
3710449.5, 103.2, 116.4, 0.0);
  (433726.3, 3710474.0, 103.9, 116.4, 0.0); (433730.8,
3710498.6, 104.0, 116.5, 0.0);
  (433735.4, 3710523.1, 103.9, 117.4, 0.0); (433739.9,
3710547.7, 103.8, 117.7, 0.0);
  (433749.8, 3710594.2, 104.3, 117.7, 0.0); (433755.2,
3710616.1, 104.8, 119.7, 0.0);
  (433760.6, 3710638.1, 104.7, 119.7, 0.0); (433766.0,
3710660.1, 104.7, 121.4, 0.0);
  (433771.4, 3710682.0, 104.8, 121.6, 0.0); (433776.8,
3711605.2, 112.5, 112.5, 0.0);
  (434099.9, 3711567.5, 114.0, 114.0, 0.0); (434082.0,
3711535.1, 116.6, 116.6, 0.0);
  (434074.5, 3711518.3, 116.9, 116.9, 0.0); (434083.1,
3711485.4, 118.0, 118.0, 0.0);
  (434099.3, 3711469.2, 118.9, 118.9, 0.0); (434138.6,
3711450.7, 118.8, 118.8, 0.0);
  (434161.7, 3711448.4, 118.6, 118.6, 0.0); (434197.6,
3711429.9, 119.8, 120.3, 0.0);
  (434210.3, 3711413.7, 119.7, 119.7, 0.0); (434200.5,
3711394.9, 120.4, 120.4, 0.0);
  (434157.7, 3711400.4, 120.1, 120.1, 0.0); (434137.5,
3711408.5, 120.1, 120.1, 0.0);
  (434117.2, 3711416.6, 120.0, 120.0, 0.0); (434097.0,
3711424.7, 119.7, 119.7, 0.0);
  (434076.8, 3711432.8, 119.7, 119.7, 0.0); (434062.6,
3711422.2, 120.4, 123.9, 0.0);
  (434068.7, 3711403.6, 121.9, 125.9, 0.0); (434074.8,
3711385.0, 123.5, 125.9, 0.0);
  (434086.3, 3711345.8, 125.6, 125.6, 0.0); (434091.8,
3711325.3, 125.7, 125.7, 0.0);
  (434097.3, 3711304.8, 125.3, 125.3, 0.0); (434102.8,
3711284.2, 124.9, 124.9, 0.0);
  (434108.3, 3711263.7, 124.8, 124.8, 0.0); (434127.6,
3711225.4, 122.5, 122.5, 0.0);
  (434141.5, 3711207.7, 122.0, 122.0, 0.0); (434155.4,
3711189.9, 121.2, 121.2, 0.0);
  (434148.4, 3711166.3, 121.9, 121.9, 0.0); (434127.6,
3711160.6, 121.8, 121.8, 0.0);
  (434096.4, 3711138.0, 121.2, 121.2, 0.0); (434086.0,
3711121.3, 120.9, 120.9, 0.0);
  (434074.8, 3711082.4, 119.9, 119.9, 0.0); (434073.9,
3711060.3, 119.6, 119.6, 0.0);
  (434073.0, 3711038.2, 118.9, 118.9, 0.0); (434079.7,
3710999.9, 117.1, 117.1, 0.0);
  (434087.2, 3710983.7, 116.9, 116.9, 0.0); (434079.5,
3710949.8, 115.9, 115.9, 0.0);
  (434064.3, 3710932.0, 114.6, 114.6, 0.0); (434049.2,
3710914.2, 113.1, 113.1, 0.0);
  (434031.1, 3710876.2, 114.0, 114.0, 0.0); (434028.2,
3710856.0, 115.6, 115.6, 0.0);
  (434018.4, 3710818.0, 117.6, 117.6, 0.0); (434011.5,
3710800.2, 118.6, 118.6, 0.0);
  (434004.5, 3710782.4, 119.5, 119.5, 0.0); (434008.0,
3710746.8, 122.0, 122.0, 0.0);
  (434018.4, 3710728.8, 122.1, 122.1, 0.0); (434011.5,
3710711.5, 122.3, 122.3, 0.0);
  (433994.1, 3710712.1, 122.0, 122.0, 0.0); (433964.1,
3710694.7, 121.5, 121.5, 0.0);
  (433951.4, 3710676.8, 120.1, 120.1, 0.0); (433943.0,

3711735.2,   106.1,   106.1,   0.0);
     (433734.0, 3711751.2,   106.2,   106.2,   0.0);   (433735.8,
3711782.0,   105.6,   105.6,   0.0);
     (433751.4, 3711798.9,   105.4,   105.4,   0.0);   (433767.0,
3711815.8,   104.8,   104.8,   0.0);
     (433785.6, 3711854.8,   104.3,   104.3,   0.0);   (433788.7,
3711876.9,   104.3,   104.3,   0.0);
     (433791.7, 3711899.0,   103.9,   103.9,   0.0);   (433789.3,
3711944.7,   102.8,   102.8,   0.0);
     (433783.8, 3711968.2,   101.3,   101.3,   0.0);   (433778.4,
3711991.8,   100.1,   101.6,   0.0);
     (433772.9, 3712015.3,   99.5,   99.5,   0.0);   (433767.5,
3712038.8,   99.2,   99.2,   0.0);
     (433762.0, 3712062.3,   98.9,   98.9,   0.0);   (433735.8,
3712075.5,   97.4,   97.4,   0.0);
     (433715.0, 3712065.1,   95.2,   95.2,   0.0);   (433694.2,
3712054.7,   92.9,   92.9,   0.0);
     (433673.4, 3712044.3,   90.8,   90.8,   0.0);   (433652.6,
3712033.9,   88.9,   88.9,   0.0);
     (433631.8, 3712023.5,   87.6,   87.6,   0.0);   (433611.0,
3712013.0,   86.7,   86.7,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                     (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                 (METERS)

     (433589.0, 3712023.5,   85.8,   113.2,   0.0);   (433587.8,
3712044.3,   86.0,   86.0,   0.0);
     (433607.0, 3712073.0,   85.0,   96.4,   0.0);   (433627.3,
3712080.9,   86.6,   98.4,   0.0);
     (433647.6, 3712088.8,   87.7,   98.4,   0.0);   (433667.9,
3712096.8,   88.9,   98.8,   0.0);
     (433688.2, 3712104.7,   91.7,   98.4,   0.0);   (433708.5,
3712112.6,   95.7,   95.7,   0.0);
     (433729.7, 3712143.1,   97.8,   97.8,   0.0);   (433730.6,
3712165.6,   97.7,   97.7,   0.0);
     (433731.5, 3712188.2,   97.3,   97.3,   0.0);   (433746.2,
3712224.6,   96.8,   96.8,   0.0);
     (433760.1, 3712238.5,   96.3,   97.8,   0.0);   (433773.9,
3712252.3,   95.9,   95.9,   0.0);
     (433810.3, 3712268.4,   95.6,   97.3,   0.0);   (433832.9,
3712270.5,   95.7,   97.3,   0.0);
     (433855.4, 3712272.7,   95.5,   95.5,   0.0);   (433876.8,
3710704.0,   105.4,   122.0,   0.0);
     (433782.2, 3710725.9,   106.0,   122.0,   0.0);   (433787.6,
3710747.9,   106.2,   122.0,   0.0);
     (433787.8, 3710794.1,   104.5,   122.0,   0.0);   (433782.6,
3710818.4,   101.0,   122.0,   0.0);
     (433777.4, 3710842.7,   98.6,   122.0,   0.0);   (433790.1,
3710874.5,   98.0,   122.0,   0.0);
     (433808.0, 3710882.0,   97.4,   122.0,   0.0);   (433823.8,
3710909.9,   97.2,   122.0,   0.0);
     (433821.6, 3710930.3,   100.6,   121.1,   0.0);   (433819.4,
3710950.6,   104.5,   107.8,   0.0);
     (433801.2, 3710982.7,   108.3,   108.3,   0.0);   (433785.2,
3710994.4,   108.7,   108.7,   0.0);
     (433769.2, 3711006.1,   108.9,   108.9,   0.0);   (433752.8,
3711040.6,   110.6,   113.6,   0.0);
     (433752.5, 3711063.5,   113.1,   113.1,   0.0);   (433752.3,
3711086.3,   114.4,   115.0,   0.0);
     (433752.0, 3711109.1,   114.8,   114.8,   0.0);   (433751.7,
3711132.0,   114.9,   114.9,   0.0);
     (433764.1, 3711171.8,   117.0,   120.8,   0.0);   (433776.8,
3711188.9,   120.0,   120.0,   0.0);
     (433789.5, 3711205.9,   121.1,   121.1,   0.0);   (433802.2,
3711223.0,   120.3,   120.3,   0.0);
     (433815.0, 3711240.0,   119.7,   119.7,   0.0);   (433842.2,
3711271.3,   121.1,   125.8,   0.0);
     (433856.8, 3711285.5,   124.4,   124.4,   0.0);   (433871.4,
3711299.7,   125.6,   125.6,   0.0);
     (433885.9, 3711314.0,   125.3,   125.3,   0.0);   (433923.5,
3711335.1,   125.1,   125.1,   0.0);
     (433946.5, 3711342.0,   124.3,   125.5,   0.0);   (433969.4,
3711349.0,   124.1,   124.1,   0.0);
     (433995.0, 3711376.7,   122.7,   124.1,   0.0);   (433997.6,
3711397.5,   120.5,   124.5,   0.0);
     (434000.2, 3711418.3,   119.3,   122.5,   0.0);   (434002.8,
3711439.1,   117.8,   123.9,   0.0);
     (434005.4, 3711459.9,   116.2,   123.9,   0.0);   (433988.1,
3711492.3,   115.0,   115.0,   0.0);
     (433968.1, 3711503.9,   113.6,   113.6,   0.0);   (433948.2,
3711515.4,   111.2,   114.5,   0.0);
     (433928.2, 3711527.0,   109.4,   109.4,   0.0);   (433908.3,
3711538.5,   107.7,   107.7,   0.0);
     (433882.1, 3711572.4,   104.2,   104.2,   0.0);   (433875.8,
3711594.8,   103.6,   103.6,   0.0);
     (433869.5, 3711617.1,   104.0,   104.0,   0.0);   (433863.2,
3711639.4,   104.5,   104.5,   0.0);
     (433856.9, 3711661.7,   104.7,   104.7,   0.0);   (433850.6,
3711684.0,   105.2,   105.2,   0.0);
     (433844.4, 3711706.4,   105.9,   105.9,   0.0);   (433815.5,
3711730.9,   105.9,   105.9,   0.0);
     (433793.0, 3711733.0,   105.9,   105.9,   0.0);   (433770.5,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\msvj_sfc_pfl\MSVJ_trimmed.sfc
Met Version: 22112
Profile file: ..\msvj_sfc_pfl\MSVJ_trimmed.pfl

Surface format: FREE

Profile format: FREE

Surface station no.:   93184   Upper air station no.:   3190
Name: UNKNOWN   Name: UNKNOWN

Year: 2017   Year: 2017

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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
 17 01 01   1 01   -3.1  0.080 -9.000 -9.000 -999.   54.     14.7  0.14   0.72
1.00    0.86   69.   10.0  280.0    9.0
 17 01 01   1 02   -3.2  0.082 -9.000 -9.000 -999.   56.     14.8  0.14   0.72
1.00    0.90   61.   10.0  279.7    9.0
 17 01 01   1 03   -6.9  0.115 -9.000 -9.000 -999.   94.     19.8  0.14   0.72
1.00    1.34   69.   10.0  280.4    9.0
 17 01 01   1 04   -2.7  0.077 -9.000 -9.000 -999.   51.     14.7  0.14   0.72
1.00    0.80   67.   10.0  279.9    9.0
 17 01 01   1 05   -2.7  0.075 -9.000 -9.000 -999.   49.     13.8  0.10   0.72
1.00    0.86  113.   10.0  279.8    9.0
 17 01 01   1 06   -5.2  0.099 -9.000 -9.000 -999.   75.     16.5  0.10   0.72
1.00    1.26   92.   10.0  279.9    9.0
 17 01 01   1 07   -5.0  0.099 -9.000 -9.000 -999.   74.     17.0  0.14   0.72
1.00    1.14   86.   10.0  279.8    9.0
 17 01 01   1 08   -2.7  0.079 -9.000 -9.000 -999.   53.     16.0  0.10   0.72
0.53    1.00   98.   10.0  280.2    9.0
 17 01 01   1 09   28.1  0.133  0.457  0.005  120.  116.     -7.3  0.10   0.72
0.31    1.12  106.   10.0  283.2    9.0
 17 01 01   1 10   68.3  0.177  1.044  0.005  592.  178.     -7.2  0.11   0.72
0.24    1.45  159.   10.0  285.0    9.0
 17 01 01   1 11   78.5  0.266  1.278  0.005  943.  330.    -21.3  0.17   0.72
0.21    2.23  183.   10.0  285.5    9.0
 17 01 01   1 12   89.1  0.233  1.396  0.005 1082.  271.    -12.6  0.17   0.72
0.20    1.83  200.   10.0  286.2    9.0
 17 01 01   1 13   88.1  0.262  1.426  0.005 1168.  323.    -18.2  0.10   0.72
0.20    2.51  225.   10.0  286.6    9.0
 17 01 01   1 14   75.3  0.373  1.380  0.005 1237.  546.    -60.8  0.17   0.72
```

```
3712293.4,      94.5,      94.5,       0.0);
     ( 433875.6, 3712311.9,      94.8,      94.8,       0.0);         ( 433888.2,
3712349.6,      96.2,      96.2,       0.0);
     ( 433901.9, 3712368.9,      97.2,      97.2,       0.0);         ( 433915.5,
3712388.1,      97.3,      98.2,       0.0);
```


*** MODELOPTs: RegDFAULT CONC ELEV 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
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 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,

```
                                ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         433702.31    3710264.05        1.02173                    433752.31
3710264.05        0.99737
         433802.31    3710264.05        0.94667                    433852.31
3710264.05        0.88999
         433702.31    3710314.05        1.11000                    433752.31
3710314.05        1.08743
         433802.31    3710314.05        0.99443                    433852.31
3710314.05        0.95915
         433752.31    3710364.05        1.18971                    433802.31
3710364.05        1.05578
         433852.31    3710364.05        1.01605                    433902.31
3710364.05        0.98152
         433752.31    3710414.05        1.30296                    433802.31
3710414.05        1.16011
         433852.31    3710414.05        1.11320                    433902.31
3710414.05        1.07597
         433752.31    3710464.05        1.42148                    433802.31
3710464.05        1.30436
         433852.31    3710464.05        1.22763                    433902.31
3710464.05        1.19200
         433752.31    3710514.05        1.54188                    433802.31
3710514.05        1.47812
         433852.31    3710514.05        1.35374                    433902.31
3710514.05        1.31594
         434452.31    3710514.05        1.34420                    434502.31
3710514.05        1.45183
         433752.31    3710564.05        1.65763                    433802.31
3710564.05        1.65212
         433852.31    3710564.05        1.49104                    433902.31
3710564.05        1.46700
         434452.31    3710564.05        1.44735                    434502.31
3710564.05        1.42126
         434552.31    3710564.05        1.50156                    433802.31
3710614.05        1.79873
         433852.31    3710614.05        1.64186                    433902.31
3710614.05        1.62758
         434452.31    3710614.05        1.42088                    434502.31
3710614.05        1.31418
         434552.31    3710614.05        1.47463                    434602.31
3710614.05        1.59047
         434652.31    3710614.05        1.91668                    433802.31
3710664.05        1.92072
0.21    3.44  205.   10.0  286.5    9.0
 17 01 01   1 15   60.7  0.290  1.302  0.005 1290.  379.    -35.8  0.17   0.72
0.25    2.57  199.   10.0  286.4    9.0
 17 01 01   1 16   20.1  0.281  0.904  0.005 1304.  358.    -98.3  0.17   0.72
0.33    2.68  195.   10.0  286.5    9.0
 17 01 01   1 17  -18.1  0.218 -9.000 -9.000 -999.  246.     52.3  0.17   0.72
0.61    2.33  190.   10.0  285.5    9.0
 17 01 01   1 18   -5.6  0.104 -9.000 -9.000 -999.   88.     17.5  0.11   0.72
1.00    1.29  162.   10.0  284.2    9.0
 17 01 01   1 19   -5.1  0.098 -9.000 -9.000 -999.   74.     16.5  0.10   0.72
1.00    1.25  117.   10.0  283.5    9.0
 17 01 01   1 20   -7.0  0.115 -9.000 -9.000 -999.   93.     19.2  0.10   0.72
1.00    1.46  104.   10.0  283.4    9.0
 17 01 01   1 21   -6.8  0.113 -9.000 -9.000 -999.   91.     19.0  0.10   0.72
1.00    1.44  120.   10.0  284.0    9.0
 17 01 01   1 22   -5.6  0.102 -9.000 -9.000 -999.   79.     16.9  0.09   0.72
1.00    1.34  127.   10.0  284.3    9.0
 17 01 01   1 23   -4.4  0.091 -9.000 -9.000 -999.   66.     15.2  0.09   0.72
1.00    1.19  128.   10.0  284.0    9.0
 17 01 01   1 24   -7.2  0.116 -9.000 -9.000 -999.   95.     19.3  0.09   0.72
1.00    1.52  129.   10.0  283.9    9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 17 01 01 01    9.0 0 -999.  -99.00   280.0   99.0  -99.00  -99.00
 17 01 01 01   10.0 1   69.    0.86  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:24:19

                                  PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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L0000006 , L0000007 , L0000008 , L0000009 , L0000010
, L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018
, L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026
, L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
434802.31	3710814.05	3.24507	434852.31	3710814.05	3.43847
433802.31	3710864.05	2.24965	433852.31	3710864.05	2.38974
433902.31	3710864.05	2.38643	433952.31	3710864.05	2.47867
434002.31	3710864.05	2.65104	434602.31	3710864.05	2.52182
434652.31	3710864.05	2.60087	434702.31	3710864.05	2.77964
434752.31	3710864.05	3.06210	434802.31	3710864.05	3.38860
434852.31	3710864.05	3.53271	434902.31	3710864.05	3.78805
433852.31	3710914.05	2.44063	433902.31	3710914.05	2.55759
433952.31	3710914.05	2.64840	434002.31	3710914.05	2.84560
434652.31	3710914.05	3.22831	434702.31	3710914.05	3.43546
434752.31	3710914.05	3.58252	434802.31	3710914.05	3.73830
434852.31	3710914.05	3.79862	434902.31	3710914.05	3.82910
434952.31	3710914.05	3.86291	433852.31	3710964.05	2.30613
433902.31	3710964.05	2.52303	433952.31	3710964.05	2.62240
434002.31	3710964.05	2.83900	434052.31	3710964.05	3.09472
434652.31	3710964.05	4.17223	434702.31	3710964.05	4.35627
434752.31	3710964.05	4.42576	434802.31	3710964.05	4.79984
433852.31	3710664.05	1.79984	433902.31	3710664.05	1.77712
434502.31	3710664.05	1.39127	434552.31	3710664.05	1.44542
434602.31	3710664.05	1.64402	434652.31	3710664.05	1.84386
434702.31	3710664.05	2.17908	433802.31	3710714.05	2.01415
433852.31	3710714.05	1.99654	433902.31	3710714.05	1.90236
433952.31	3710714.05	1.92654	434002.31	3710714.05	1.93152
434502.31	3710714.05	1.59970	434552.31	3710714.05	1.62621
434602.31	3710714.05	1.72183	434652.31	3710714.05	1.86188
434702.31	3710714.05	2.10525	434752.31	3710714.05	2.67625
433802.31	3710764.05	2.07109	433852.31	3710764.05	2.18446
433902.31	3710764.05	2.11457	433952.31	3710764.05	2.11684
434552.31	3710764.05	1.84142	434602.31	3710764.05	1.81400
434652.31	3710764.05	1.94670	434702.31	3710764.05	2.30977
434752.31	3710764.05	2.69287	434802.31	3710764.05	3.16727
433802.31	3710814.05	2.16598	433852.31	3710814.05	2.24780
433902.31	3710814.05	2.32029	433952.31	3710814.05	2.32780
434002.31	3710814.05	2.44029	434552.31	3710814.05	2.12802
434602.31	3710814.05	2.09380	434652.31	3710814.05	2.16644
434702.31	3710814.05	2.49957	434752.31	3710814.05	2.91678

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,

*** 11:24:19

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
435102.31	3711164.05	2.25055	433802.31	3711214.05	1.69691
433852.31	3711214.05	1.84385	433902.31	3711214.05	2.00834
433952.31	3711214.05	2.21938	434002.31	3711214.05	2.48271
434052.31	3711214.05	2.81291	434102.31	3711214.05	3.23862
434952.31	3711214.05	4.08058	435002.31	3711214.05	2.94533
435052.31	3711214.05	2.43382	435102.31	3711214.05	2.12197
435152.31	3711214.05	1.92203	433852.31	3711264.05	1.78869
433902.31	3711264.05	1.94634	433952.31	3711264.05	2.15275
434002.31	3711264.05	2.41520	434052.31	3711264.05	2.72611
434102.31	3711264.05	3.12674	434902.31	3711264.05	6.81289
434952.31	3711264.05	4.27080	435002.31	3711264.05	3.18308
435052.31	3711264.05	2.49273	435102.31	3711264.05	2.17311

				3710964.05	4.35024
434852.31	3710964.05	4.16762	434902.31	3710964.05	3.92110
434952.31	3710964.05	3.87516	433802.31	3711014.05	2.03532
433852.31	3711014.05	2.23669	433902.31	3711014.05	2.34629
433952.31	3711014.05	2.53194	434002.31	3711014.05	2.76850
434052.31	3711014.05	3.06471	434702.31	3711014.05	5.67800
434752.31	3711014.05	5.52919	434802.31	3711014.05	5.14596
434852.31	3711014.05	4.61877	434902.31	3711014.05	4.17960
434952.31	3711014.05	3.65842	435002.31	3711014.05	3.60677
433802.31	3711064.05	1.93682	433852.31	3711064.05	2.14846
433902.31	3711064.05	2.23675	433952.31	3711064.05	2.45023
434002.31	3711064.05	2.70399	434052.31	3711064.05	3.01867
434752.31	3711064.05	6.92433	434802.31	3711064.05	6.13582
434852.31	3711064.05	5.21146	434902.31	3711064.05	4.34560
434952.31	3711064.05	3.83899	433752.31	3711114.05	1.71399
433802.31	3711114.05	1.86492	433852.31	3711114.05	1.99858
433902.31	3711114.05	2.11005	433952.31	3711114.05	2.33858
434002.31	3711114.05	2.62458	434052.31	3711114.05	2.96777
434752.31	3711114.05	8.74319	434802.31	3711114.05	7.33127
434852.31	3711114.05	5.83332	433802.31	3711164.05	1.75225
433852.31	3711164.05	1.90152	433902.31	3711164.05	2.05861
433952.31	3711164.05	2.27662	434002.31	3711164.05	2.55031
434052.31	3711164.05	2.89854	434102.31	3711164.05	3.32749
434752.31	3711164.05	11.37791	435052.31	3711164.05	2.41540

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
434002.31	3711514.05	2.09318	434052.31	3711514.05	2.26299
434852.31	3711514.05	5.93952	434902.31	3711514.05	4.61905
434952.31	3711514.05	3.91614	435002.31	3711514.05	3.65889
435052.31	3711514.05	3.63786	435102.31	3711514.05	3.06013
435152.31	3711514.05	2.48848	435202.31	3711514.05	1.97482
435252.31	3711514.05	1.71101	435302.31	3711514.05	1.48422
435352.31	3711514.05	1.32368	433902.31	3711564.05	1.88230
433952.31	3711564.05	1.94157	434002.31	3711564.05	1.59947
435302.31	3711464.05	1.34365	435352.31	3711464.05	1.26068
435402.31	3711464.05	1.22119	433952.31	3711514.05	1.99009
435202.31	3711464.05	1.91870	435252.31	3711464.05	1.59947
435302.31	3711464.05	1.34365	435352.31	3711464.05	1.26068
435402.31	3711464.05	1.22119	433952.31	3711514.05	1.99009
435152.31	3711264.05	1.92210	435202.31	3711264.05	1.74891
433902.31	3711314.05	1.89048	433952.31	3711314.05	2.09067
434002.31	3711314.05	2.33981	434052.31	3711314.05	2.63329
434852.31	3711314.05	13.36281	434902.31	3711314.05	7.69412
434952.31	3711314.05	5.26492	435002.31	3711314.05	3.67798
435052.31	3711314.05	2.74538	435102.31	3711314.05	2.28126
435152.31	3711314.05	1.98142	435202.31	3711314.05	1.69043
435252.31	3711314.05	1.51928	434002.31	3711364.05	2.26813
434052.31	3711364.05	2.53007	434852.31	3711364.05	13.53350
434902.31	3711364.05	8.94723	434952.31	3711364.05	6.00208
435002.31	3711364.05	4.52121	435052.31	3711364.05	3.43951
435102.31	3711364.05	2.52973	435152.31	3711364.05	2.04870
435202.31	3711364.05	1.68322	435252.31	3711364.05	1.44641
435302.31	3711364.05	1.35854	434002.31	3711414.05	2.23226
434052.31	3711414.05	2.46208	434152.31	3711414.05	3.19230
434202.31	3711414.05	3.69486	434902.31	3711414.05	8.65232
434952.31	3711414.05	6.41478	435002.31	3711414.05	4.83102
435052.31	3711414.05	3.67596	435102.31	3711414.05	2.61825
435152.31	3711414.05	2.18126	435202.31	3711414.05	1.76117
435252.31	3711414.05	1.47229	435302.31	3711414.05	1.30018
435352.31	3711414.05	1.24727	434052.31	3711464.05	2.38125
434102.31	3711464.05	2.63888	434852.31	3711464.05	7.10942
434902.31	3711464.05	6.17904	434952.31	3711464.05	5.75071
435002.31	3711464.05	4.72143	435052.31	3711464.05	3.80214
435102.31	3711464.05	2.84016	435152.31	3711464.05	2.24552

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3711714.05        1.56189
         433902.31    3711714.05        1.65710                      433952.31
3711714.05        1.77503
         434002.31    3711714.05        1.92173                      434052.31
3711714.05        2.03185
         434102.31    3711714.05        2.06724                      434152.31
3711714.05        2.22805
         434202.31    3711714.05        2.42653                      434252.31
3711714.05        2.64719
         434302.31    3711714.05        2.89083                      434352.31
3711714.05        3.17023
         434902.31    3711714.05        2.94798                      434952.31
3711714.05        2.43792
         435002.31    3711714.05        2.12574                      435052.31
3711714.05        1.94071
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

                                PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
         435102.31    3711714.05        1.88473                      435152.31
3711714.05        1.70227
         435202.31    3711714.05        1.52625                      435252.31
3711714.05        1.40049
         435302.31    3711714.05        1.15730                      435352.31
3711714.05        0.96711
3711564.05        2.02558
         434052.31    3711564.05        2.16474                      434852.31
3711564.05        5.08074
         434902.31    3711564.05        4.07645                      434952.31
3711564.05        3.40704
         435002.31    3711564.05        2.92916                      435052.31
3711564.05        2.72735
         435102.31    3711564.05        2.73853                      435152.31
3711564.05        2.49761
         435202.31    3711564.05        2.12460                      435252.31
3711564.05        1.75279
         435302.31    3711564.05        1.44002                      435352.31
3711564.05        1.22499
         433902.31    3711614.05        1.80996                      433952.31
3711614.05        1.90376
         434002.31    3711614.05        2.01726                      434052.31
3711614.05        2.15124
         434102.31    3711614.05        2.33987                      434852.31
3711614.05        4.48810
         434902.31    3711614.05        3.58710                      434952.31
3711614.05        2.99410
         435002.31    3711614.05        2.64379                      435052.31
3711614.05        2.36549
         435102.31    3711614.05        2.13696                      435152.31
3711614.05        2.23255
         435202.31    3711614.05        2.09278                      435252.31
3711614.05        1.69982
         435302.31    3711614.05        1.22538                      435352.31
3711614.05        1.01488
         435402.31    3711614.05        1.01724                      433902.31
3711664.05        1.75351
         433952.31    3711664.05        1.86679                      434002.31
3711664.05        1.96813
         434052.31    3711664.05        2.05601                      434102.31
3711664.05        2.19384
         434302.31    3711664.05        3.18033                      434352.31
3711664.05        3.54980
         434852.31    3711664.05        4.01160                      434902.31
3711664.05        3.19614
         434952.31    3711664.05        2.67383                      435002.31
3711664.05        2.39583
         435052.31    3711664.05        2.19954                      435102.31
3711664.05        2.00478
         435152.31    3711664.05        1.81673                      435202.31
3711664.05        1.72257
         435252.31    3711664.05        1.52482                      435302.31
3711664.05        1.15461
         435352.31    3711664.05        0.99111                      435402.31
3711664.05        0.88072
         435452.31    3711664.05        0.87668                      433852.31
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
433902.31	3711864.05	1.41489	433952.31	3711864.05	1.49155	434002.31	3711864.05	1.55973
434052.31	3711864.05	1.60383	434102.31	3711864.05	1.67688	434152.31	3711864.05	1.77378
434902.31	3711864.05	2.78436	434952.31	3711864.05	2.19736	435002.31	3711864.05	1.78438
435052.31	3711864.05	1.50249	435102.31	3711864.05	1.33880	435152.31	3711864.05	1.23382
435202.31	3711864.05	1.19334	435252.31	3711864.05	1.14405	435302.31	3711864.05	1.04357
435352.31	3711864.05	0.94300	435402.31	3711864.05	0.84923	435452.31	3711864.05	0.76981
435502.31	3711864.05	0.71919	433802.31	3711914.05	1.31180	433852.31	3711914.05	1.34749
433902.31	3711914.05	1.34871	433952.31	3711914.05	1.42642	434002.31	3711914.05	1.48933
435402.31	3711714.05	0.83766	435452.31	3711714.05	0.80356	433752.31	3711764.05	1.32483
433802.31	3711764.05	1.40669	433852.31	3711764.05	1.49859	433902.31	3711764.05	1.57407
433952.31	3711764.05	1.64541	434002.31	3711764.05	1.76101	434052.31	3711764.05	1.86297
434102.31	3711764.05	1.94020	434152.31	3711764.05	2.09411	434202.31	3711764.05	2.60945
434302.31	3711764.05	2.83635	434352.31	3711764.05	2.74348	434902.31	3711764.05	2.30622
434952.31	3711764.05	1.98861	435002.31	3711764.05	1.77627	435052.31	3711764.05	1.61246
435102.31	3711764.05	1.51997	435152.31	3711764.05	1.38232	435202.31	3711764.05	1.25668
435252.31	3711764.05	1.15420	435302.31	3711764.05	0.97963	435352.31	3711764.05	0.83758
435402.31	3711764.05	0.77053	435452.31	3711764.05	0.73554	435502.31	3711764.05	0.71661
433802.31	3711814.05	1.38110	433852.31	3711814.05	1.43232	433902.31	3711814.05	1.48272
433952.31	3711814.05	1.55416	434002.31	3711814.05	1.63774	434052.31	3711814.05	1.71183
434102.31	3711814.05	1.80151	434152.31	3711814.05	1.91644	434352.31	3711814.05	2.54882
434952.31	3711814.05	2.19514	435002.31	3711814.05	1.90410	435052.31	3711814.05	1.64390
435102.31	3711814.05	1.46709	435152.31	3711814.05	1.36504	435202.31	3711814.05	1.29362
435252.31	3711814.05	1.19041	435302.31	3711814.05	1.13274	435352.31	3711814.05	1.00219
435402.31	3711814.05	0.86378	435452.31	3711814.05	0.76817	435502.31	3711814.05	0.71661
435552.31	3711814.05	0.68439	433802.31	3711864.05	1.34674	433852.31	3711864.05	1.38625

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3712014.05        0.89899
         435302.31    3712014.05        0.88792                     435352.31
3712014.05        0.80003
         433602.31    3712064.05        1.10544                     433652.31
3712064.05        1.14561
         433702.31    3712064.05        1.17059                     433802.31
3712064.05        1.22235
         433852.31    3712064.05        1.20253                     433902.31
3712064.05        1.25046
         433952.31    3712064.05        1.30881                     434002.31
3712064.05        1.31074
         434052.31    3712064.05        1.37133                     434852.31
3712064.05        2.77972
         434902.31    3712064.05        2.43194                     434952.31
3712064.05        2.15982
         435002.31    3712064.05        1.93746                     435052.31
3712064.05        1.43193
         435102.31    3712064.05        1.16456                     435152.31
3712064.05        1.02280
         435202.31    3712064.05        0.92210                     435252.31
3712064.05        0.88190
         435302.31    3712064.05        0.87132                     433752.31
3712114.05        1.13601
         433802.31    3712114.05        1.15449                     433852.31
3712114.05        1.16251
         433902.31    3712114.05        1.21024                     433952.31
3712114.05        1.26527
         434002.31    3712114.05        1.26141                     434052.31
3712114.05        1.31999
         434852.31    3712114.05        2.56420                     434902.31
3712114.05        2.38470
         434952.31    3712114.05        2.12425                     435002.31
3712114.05        1.81740
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                 PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026

Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         434052.31    3711914.05        1.52950                     434102.31
3711914.05        1.58110
         434152.31    3711914.05        1.66281                     434902.31
3711914.05        2.81929
         434952.31    3711914.05        2.26133                     435002.31
3711914.05        1.70168
         435052.31    3711914.05        1.48201                     435102.31
3711914.05        1.27126
         435152.31    3711914.05        1.16632                     435202.31
3711914.05        1.08755
         435252.31    3711914.05        1.04997                     435302.31
3711914.05        0.97100
         435352.31    3711914.05        0.86952                     435402.31
3711914.05        0.80429
         435452.31    3711914.05        0.76157                     433802.31
3711964.05        1.28734
         433852.31    3711964.05        1.30053                     433902.31
3711964.05        1.28681
         433952.31    3711964.05        1.37334                     434002.31
3711964.05        1.45013
         434052.31    3711964.05        1.49211                     434102.31
3711964.05        1.52519
         434902.31    3711964.05        2.68537                     434952.31
3711964.05        2.19217
         435002.31    3711964.05        1.79540                     435052.31
3711964.05        1.41885
         435102.31    3711964.05        1.22760                     435152.31
3711964.05        1.10610
         435202.31    3711964.05        1.02913                     435252.31
3711964.05        0.99967
         435302.31    3711964.05        0.90120                     435352.31
3711964.05        0.82103
         433602.31    3712014.05        1.13752                     433802.31
3712014.05        1.26451
         433852.31    3712014.05        1.26532                     433902.31
3712014.05        1.24996
         433952.31    3712014.05        1.32744                     434002.31
3712014.05        1.38868
         434052.31    3712014.05        1.43266                     434102.31
3712014.05        1.49339
         434902.31    3712014.05        2.52500                     434952.31
3712014.05        2.10242
         435002.31    3712014.05        1.90129                     435052.31
3712014.05        1.37292
         435102.31    3712014.05        1.20086                     435152.31
3712014.05        1.04860
         435202.31    3712014.05        0.96315                     435252.31
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        433852.31    3712264.05        1.11398                    433902.31
3712264.05        1.16055
        433952.31    3712264.05        1.14127                    434002.31
3712264.05        1.15465
        434052.31    3712264.05        1.20176                    434952.31
3712264.05        1.77545
        435002.31    3712264.05        1.65371                    435052.31
3712264.05        1.52960
        435102.31    3712264.05        1.40437                    435152.31
3712264.05        1.19425
        435202.31    3712264.05        1.09974                    433902.31
3712314.05        1.11460
        433952.31    3712314.05        1.10445                    434002.31
3712314.05        1.11292
        434052.31    3712314.05        1.15725                    435002.31
3712314.05        1.57819
        435052.31    3712314.05        1.47296                    435102.31
3712314.05        1.35172
        435152.31    3712314.05        1.16081                    435202.31
3712314.05        1.06433
        433902.31    3712364.05        1.04972                    433952.31
3712364.05        1.06354
        434002.31    3712364.05        1.08426                    435052.31
3712364.05        1.39863
        435102.31    3712364.05        1.28755                    435152.31
3712364.05        1.12679
        435202.31    3712364.05        1.03027                    435102.31
3712414.05        1.21606
        435152.31    3712414.05        1.09786                    435202.31
3712414.05        1.00149
        435152.31    3712464.05        1.06395                    435202.31
3712464.05        0.98174
        434741.14    3711168.41       12.32771                    434716.31
3711074.44        7.84190
        434678.19    3711011.50        5.59907                    434657.80
3710979.58        4.56959
        434615.25    3710921.07        3.27249                    434571.54
3710874.19        2.68116
        434560.50    3710848.42        2.41457                    434528.60
3710778.48        1.91653
        434522.46    3710725.71        1.65899                    434488.10
3710708.53        1.63757
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

                                PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

, L0000027    , L0000028    ,  . . .     ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        435052.31    3712114.05        1.49809                    435102.31
3712114.05        1.20089
        435152.31    3712114.05        1.02590                    435202.31
3712114.05        0.93556
        435252.31    3712114.05        0.89042                    435302.31
3712114.05        0.84129
        433752.31    3712164.05        1.09486                    433802.31
3712164.05        1.10573
        433852.31    3712164.05        1.12149                    433902.31
3712164.05        1.17554
        433952.31    3712164.05        1.22828                    434002.31
3712164.05        1.22774
        434052.31    3712164.05        1.28070                    434852.31
3712164.05        2.36192
        434902.31    3712164.05        2.23486                    434952.31
3712164.05        2.03081
        435002.31    3712164.05        1.75434                    435052.31
3712164.05        1.46559
        435102.31    3712164.05        1.33070                    435152.31
3712164.05        1.10953
        435202.31    3712164.05        0.98848                    435252.31
3712164.05        0.92347
        433752.31    3712214.05        1.05943                    433802.31
3712214.05        1.09914
        433852.31    3712214.05        1.14003                    433902.31
3712214.05        1.18000
        433952.31    3712214.05        1.18896                    434002.31
3712214.05        1.18785
        434052.31    3712214.05        1.24226                    434902.31
3712214.05        2.07841
        434952.31    3712214.05        1.87340                    435002.31
3712214.05        1.73151
        435052.31    3712214.05        1.55559                    435102.31
3712214.05        1.33060
        435152.31    3712214.05        1.21565                    435202.31
3712214.05        1.12874
        435252.31    3712214.05        1.03138                    433802.31
3712264.05        1.07238
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3712172.28        2.40017
        434892.92    3712227.41        2.06213                   434967.65
3712291.95        1.69594
        435045.78    3712381.98        1.38543                   435112.03
3712463.51        1.13168
        435173.18    3712488.99        1.00290                   435227.53
3712494.08        0.91110
        435227.53    3712339.51        1.00214                   435244.51
3712229.11        1.04540
        435292.07    3712140.78        0.83996                   435319.25
3712105.11        0.83273
        435368.51    3711996.41        0.78713                   435560.44
3711807.87        0.68122
        435563.84    3711782.39        0.67141                   435516.28
3711743.32        0.74000
        435458.53    3711666.89        0.86275                   435385.49
3711564.98        1.15853
        435361.71    3711551.39        1.23955                   435431.35
3711483.45        1.20116
        435354.92    3711378.14        1.30850                   435213.94
3711259.24        1.70984
        435147.70    3711184.50        1.98571                   433929.22
3712407.35        1.03950
        434034.72    3712360.46        1.11411                   434081.62
3712258.86        1.23727
        434097.25    3712149.45        1.34335                   434097.25
3712028.31        1.46609
        434155.86    3711918.90        1.66113                   434175.40
3711805.58        2.04397
        434194.94    3711739.15        2.31669                   434265.27
3711758.68        2.51562
        434359.06    3711860.28        2.40988                   434351.24
3711629.73        3.85264
        434269.18    3711653.18        3.02503                   434249.64
3711700.07        2.69998
        434140.23    3711707.89        2.20216                   434115.50
3711671.48        2.21798
        434110.30    3711583.06        2.43382                   434089.49
3711551.85        2.35395
        434066.95    3711501.56        2.35733                   434115.50
3711453.02        2.75767
        434184.85    3711446.08        3.36720                   434223.00
3711397.53        4.04951
        434177.92    3711392.33        3.53973                   434056.55
3711440.88        2.44513
        434080.82    3711366.32        2.71880                   434113.77
3711243.22        3.28185
        434169.25    3711172.13        4.08523                   434106.83
3711154.79        3.38225
        434075.62    3711104.51        3.16461                   434072.15
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
434479.51	3710677.86	1.44045	434470.92	3710645.95	1.35444
434423.07	3710595.64	1.55486	434405.89	3710552.69	1.45609
434413.25	3710531.83	1.37994	434456.20	3710460.66	1.42543
434606.05	3710568.55	1.64851	434689.97	3710616.51	2.01486
434797.87	3710732.40	3.01760	434889.78	3710824.32	3.56400
435035.65	3711006.15	3.42476	434959.72	3711068.09	3.84488
434833.84	3711150.01	7.06998	435104.46	3711163.12	2.24328
435039.50	3711148.68	2.53820	434986.08	3711184.77	3.23018
434936.99	3711226.64	4.55279	434874.91	3711265.62	8.53756
434831.60	3711306.04	16.63148	434801.28	3711356.57	23.36816
434857.59	3711402.77	11.73092	434818.61	3711490.84	7.67832
434804.17	3711580.35	6.28554	434838.82	3711688.63	4.03480
434882.13	3711759.37	2.95738	434926.89	3711799.80	2.43684
434880.69	3711850.33	3.01483	434872.02	3712012.03	2.68613
434807.06	3712128.97	2.61499	434822.94		

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        433751.39    3711154.79        1.69440                  433827.68
3711257.09        1.76969
        433900.50    3711328.18        1.87167                  433992.39
3711355.92        2.23136
        434008.00    3711480.76        2.17837                  433888.36
3711550.11        1.87682
        433838.08    3711728.70        1.50968                  433747.92
3711737.37        1.33454
        433720.18    3711765.11        1.28357                  433782.60
3711832.73        1.33985
        433794.73    3711921.16        1.29621                  433756.59
3712085.88        1.16580
        433590.14    3712002.65        1.13283                  433586.67
3712065.07        1.08962
        433728.85    3712120.56        1.11296                  433732.31
3712210.72        1.05681
        433787.80    3712266.20        1.06630                  433877.96
3712274.87        1.13780
        433874.49    3712330.36        1.08203                  434734.93
3711144.92       10.85144
        434728.73    3711121.43        9.79301                  434722.52
3711097.93        8.79429
        434703.60    3711053.46        7.14680                  434690.90
3711032.48        6.37136
        434668.00    3710995.54        5.06482                  434643.62
3710960.08        4.05054
        434629.43    3710940.57        3.60810                  434600.68
3710905.44        3.02729
        434586.11    3710889.82        2.82182                  434566.02
3710861.31        2.54017
        434552.53    3710830.94        2.26485                  434544.55
3710813.45        2.16533
        434536.57    3710795.97        2.04363                  434526.55
3710760.89        1.82691
        434524.51    3710743.30        1.74535                  434505.28
3710717.12        1.62080
        434483.81    3710693.20        1.53266                  434475.21
3710661.91        1.38304
        434454.97    3710629.18        1.40497                  434439.02
3710612.41        1.52042
        434414.48    3710574.17        1.51433                  434423.99
3710514.04        1.34644
        434434.73    3710496.25        1.34565                  434445.46
3710478.45        1.39461
        434474.93    3710474.15        1.42790                  434493.66
3710487.63        1.45365
        434512.39    3710501.12        1.49109                  434531.13
3710514.61        1.51900
        434549.86    3710528.09        1.56980                  434568.59
3710541.58        1.57646
3711016.08        3.21480
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                                     L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                                     L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                                     L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
        434094.69    3710967.53        3.35955                   434034.01
3710896.44        2.93460
        434025.34    3710835.76        2.59757                   433997.60
3710764.67        2.18128
        434028.81    3710710.92        1.90887                   433976.79
3710712.65        1.92840
        433938.64    3710658.90        1.76584                   433947.31
3710612.09        1.61268
        433947.31    3710573.94        1.47291                   433942.11
3710527.13        1.32556
        433940.38    3710471.64        1.18398                   433924.77
3710400.55        1.03346
        433876.22    3710230.63        0.84498                   433685.50
3710253.17        1.01503
        433744.45    3710572.21        1.67926                   433793.00
3710769.87        2.05114
        433772.19    3710866.97        2.14796                   433825.94
3710889.51        2.36272
        433817.27    3710971.00        2.12454                   433753.12
3711017.81        1.87671
```

3710951.60 3.69111
435006.48 3710969.78 3.60078 435021.06
3710987.97 3.44865
435016.67 3711021.64 3.54211 434997.69
3711037.12 3.64506
434978.70 3711052.61 3.59394 434941.74
3711079.79 4.01065
434923.75 3711091.50 4.27148 434905.77
3711103.20 4.59692
434887.79 3711114.90 4.97448 434869.81
3711126.60 5.55865
434851.82 3711138.31 6.22414 434810.67
3711154.61 8.13098
434787.49 3711159.21 9.34920 434764.32
3711163.81 10.71546
435082.81 3711158.31 2.30158 435061.15
3711153.49 2.38281
435021.69 3711160.71 2.72407 435003.89
3711172.74 2.91268
434969.72 3711198.73 3.67932 434953.35
3711212.68 4.05736
434916.30 3711239.63 5.67294 434895.60
3711252.63 7.11372
434860.47 3711279.09 10.68564 434846.04
3711292.57 13.79430
434821.49 3711322.88 18.76134 434811.39
3711339.73 20.90640
434820.05 3711371.97 18.06722 434838.82
3711387.37 14.66002
434847.85 3711424.79 10.56215 434838.10
3711446.81 8.53442
434828.36 3711468.82 7.86949 434815.00
3711513.22 7.35984
434811.39 3711535.60 7.01005 434807.78
3711557.97 6.64151
434811.10 3711602.01 5.66604 434818.03
3711623.66 5.12543
434824.96 3711645.32 4.70972 434831.89
3711666.97 4.34837
434849.65 3711706.32 3.71115 434860.48
3711724.00 3.44026
434871.30 3711741.69 3.16681 434897.05
3711772.85 2.75973
434911.97 3711786.32 2.57478 434911.49
3711816.64 2.63154
434896.09 3711833.49 2.86401 434879.45
3711873.43 3.01613
434878.21 3711896.53 3.04911 434876.97
3711919.63 3.05424
434875.74 3711942.73 2.96557 434874.50
434587.32 3710555.06 1.61754 434627.03
3710580.54 1.73838
434648.01 3710592.53 1.88681 434668.99
3710604.52 1.95291
434705.38 3710633.07 2.10352 434720.80
3710649.62 2.22398
434736.21 3710666.18 2.35572 434751.63
3710682.73 2.49239
434767.04 3710699.29 2.67182 434782.46
3710715.84 2.81103

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
434813.19	3710747.72	3.16087	434828.51	3710763.04	3.22603
434843.83	3710778.36	3.24859	434859.14	3710793.68	3.34874
434874.46	3710809.00	3.45985	434904.37	3710842.50	3.66893
434918.95	3710860.69	3.74047	434933.54	3710878.87	3.78779
434948.13	3710897.05	3.80528	434962.72	3710915.24	3.80677
434977.30	3710933.42	3.77153	434991.89		

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        435098.78    3712447.20        1.17382                    435132.41
3712472.00        1.08683
        435152.80    3712480.50        1.04387                    435191.30
3712490.69        0.97481
        435209.41    3712492.38        0.94840                    435227.53
3712472.00        0.93023
        435227.53    3712449.92        0.94099                    435227.53
3712427.84        0.94847
        435227.53    3712405.75        0.95742                    435227.53
3712383.67        0.97053
        435227.53    3712361.59        0.98557                    435230.93
3712317.43        1.01269
        435234.32    3712295.35        1.02445                    435237.72
3712273.27        1.02926
        435241.11    3712251.19        1.03579                    435254.02
3712211.44        1.02501
        435263.53    3712193.78        0.97931                    435273.05
3712176.11        0.90240
        435282.56    3712158.45        0.84545                    435305.66
3712122.95        0.83420
        435329.10    3712083.37        0.83749                    435338.95
3712061.63        0.84135
        435348.81    3712039.89        0.81446                    435358.66
3712018.15        0.79243
        435385.96    3711979.27        0.77983                    435403.41
3711962.13        0.77732
        435420.85    3711944.99        0.77309                    435438.30
3711927.85        0.76712
        435455.75    3711910.71        0.75762                    435473.20
3711893.57        0.74663
        435490.65    3711876.43        0.72252                    435508.10
3711859.29        0.71423
        435525.54    3711842.15        0.70043                    435542.99
3711825.01        0.69210
        435562.14    3711795.13        0.67604                    435547.99
3711769.37        0.69244
        435532.13    3711756.34        0.71408                    435501.84
3711724.21        0.76466
        435487.41    3711705.11        0.79090                    435472.97
3711686.00        0.82646
        435446.36    3711649.91        0.90457                    435434.18
3711632.92        0.94770
        435422.01    3711615.94        0.99341                    435409.84
3711598.95        1.04859
        435397.66    3711581.97        1.09181                    435373.60
3711558.19        1.19258
        435379.12    3711534.41        1.20896                    435396.53
3711517.42        1.20286
        435413.94    3711500.44        1.21057                    435418.61
3711465.90        1.20637
3711965.83        2.86444
        434873.26    3711988.93        2.76496                    434861.19
3712031.52        2.76798
        434850.37    3712051.01        2.82544                    434839.54
3712070.50        2.80835
        434828.71    3712089.99        2.74438                    434817.89
3712109.48        2.68009
        434815.00    3712150.63        2.50383                    434840.44
3712186.06        2.31076
        434857.93    3712199.85        2.22478                    434875.43
3712213.63        2.14131
        434911.60    3712243.55        1.97342                    434930.29
3712259.68        1.87557
        434948.97    3712275.82        1.77127                    434983.28
3712309.96        1.63165
        434998.90    3712327.96        1.56741                    435014.53
3712345.97        1.50432
        435030.15    3712363.97        1.44244                    435059.03
3712398.29        1.34080
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                 PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                   L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                   L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        435072.28    3712414.59        1.29081                    435085.53
3712430.90        1.23551
```

** CONC OF PM_10   IN MICROGRAMS/M**3
**

X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
- -
- -
434097.25   3712100.99   1.39728   434097.25
3712076.77   1.41695
434097.25   3712052.54   1.43844   434108.97
3712006.43   1.51283
434120.69   3711984.55   1.54591   434132.42
3711962.66   1.56572
434144.14   3711940.78   1.59445   434159.77
3711896.24   1.71556
434163.68   3711873.57   1.77628   434167.58
3711850.91   1.84435
434171.49   3711828.24   1.92324   434181.91
3711783.44   2.17295
434188.43   3711761.29   2.24375   434218.38
3711745.66   2.40062
434241.83   3711752.17   2.47495   434280.90
3711775.61   2.48371
434296.53   3711792.55   2.44864   434312.17
3711809.48   2.42570
434327.80   3711826.41   2.40125   434343.43
3711843.35   2.39128
434358.28   3711837.22   2.47497   434357.50
3711814.17   2.57958
434356.71   3711791.12   2.70177   434355.93
3711768.06   2.83306
434355.15   3711745.01   2.97535   434354.37
3711721.95   3.12677
434353.59   3711698.90   3.28803   434352.80
3711675.84   3.45797
434352.02   3711652.79   3.64243   434330.73
3711635.59   3.61272
434310.21   3711641.46   3.38927   434289.70
3711647.32   3.19403
434262.67   3711668.81   2.90901   434256.15
3711684.44   2.80104
434227.76   3711701.63   2.58904   434205.88
3711703.20   2.48273
434183.99   3711704.76   2.38222   434162.11
3711706.33   2.28792
434127.87   3711689.69   2.21258   434114.20
3711649.38   2.28214
434112.90   3711627.27   2.34266   434111.60
3711605.17   2.39582
434099.90   3711567.46   2.40254   434081.98

435405.87   3711448.35   1.22080   435393.14
3711430.80   1.25397
435380.40   3711413.24   1.27563   435367.66
3711395.69   1.28619
435337.30   3711363.28   1.33494   435319.68
3711348.42   1.37902
435302.05   3711333.55   1.42239   435284.43
3711318.69   1.47663
435266.81   3711303.83   1.51805   435249.19
3711288.97   1.57877
435231.56   3711274.10   1.63203   435197.38
3711240.56   1.77123
435180.82   3711221.87   1.82518   435164.26
3711203.19   1.89406
435126.08   3711173.81   2.11783   433950.32
3712397.97   1.05050
433971.42   3712388.59   1.05660   433992.52
3712379.22   1.06603
434013.62   3712369.84   1.09358   434044.10
3712340.14   1.12381
434053.48   3712319.82   1.15328   434062.86
3712299.50   1.18101
434072.24   3712279.18   1.20475   434084.75
3712236.98   1.25364
434087.87   3712215.10   1.27175   434091.00
3712193.21   1.29535
434094.12   3712171.33   1.31926   434097.25
3712125.22   1.36879
↑ *** AERMOD - VERSION 23132 ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***   07/30/24
*** AERMET - VERSION 22112 ***   ***
***   11:24:19

PAGE 33
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

```
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         434031.12    3710876.21        2.83237                       434028.23
3710855.99        2.71407
         434018.41    3710817.99        2.49611                       434011.47
3710800.22        2.38929
         434004.54    3710782.44        2.28511                       434008.00
3710746.75        2.08700
         434018.41    3710728.84        2.00123                       434011.47
3710711.50        1.91705
         433994.13    3710712.07        1.92575                       433964.07
3710694.73        1.85853
         433951.36    3710676.82        1.80772                       433942.98
3710635.50        1.69579
         433947.31    3710593.01        1.54157                       433944.71
3710550.54        1.39619
         433941.53    3710508.63        1.27090                       433940.96
3710490.14        1.22499
         433935.18    3710447.94        1.12904                       433929.97
3710424.25        1.07798
         433918.70    3710379.31        0.99985                       433912.63
3710358.07        0.96291
         433906.56    3710336.83        0.93728                       433900.50
3710315.59        0.92147
         433894.43    3710294.35        0.90200                       433888.36
3710273.11        0.87842
         433882.29    3710251.87        0.85332                       433852.38
3710233.45        0.86466
         433828.54    3710236.26        0.89296                       433804.70
3710239.08        0.91813
         433780.86    3710241.90        0.93958                       433757.02
3710244.72        0.96471
         433733.18    3710247.54        0.98481                       433709.34
3710250.35        0.99772
         433690.03    3710277.71        1.05039                       433694.57
3710302.25        1.09125

3711535.09        2.34666
         434074.46    3711518.32        2.35060                       434083.13
3711485.38        2.47575
         434099.32    3711469.20        2.60627                       434138.62
3711450.71        2.94416
         434161.73    3711448.39        3.14381                       434197.57
3711429.90        3.55739
         434210.28    3711413.71        3.79634                       434200.46
3711394.93        3.77558
         434157.69    3711400.42        3.30012                       434137.46
3711408.51        3.08784
         434117.24    3711416.61        2.89931                       434097.01
3711424.70        2.73219
         434076.78    3711432.79        2.57894                       434062.62
3711422.24        2.51481
         434068.69    3711403.60        2.58109                       434074.75
3711384.96        2.65070
         434086.31    3711345.80        2.80687                       434091.80
3711325.29        2.89672
         434097.30    3711304.77        2.99312                       434102.79
3711284.25        3.08923
         434108.28    3711263.74        3.18389                       434127.64
3711225.45        3.47965
         434141.51    3711207.68        3.67188                       434155.38
3711189.90        3.88062
         434148.44    3711166.35        3.81820                       434127.64
3711160.57        3.58732
         434096.43    3711138.03        3.30675                       434086.02
3711121.27        3.23163
         434074.75    3711082.40        3.18035                       434073.89
3711060.30        3.19037
         434073.02    3711038.19        3.20339                       434079.66
3710999.90        3.28354
         434087.18    3710983.71        3.32898                       434079.52
3710949.76        3.23351
         434064.35    3710931.99        3.13263                       434049.18
3710914.21        3.04744
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***    ***
                       ***        11:24:19

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
433994.99	3711376.73	2.22930	433997.59	3711397.53	2.23391
434000.20	3711418.34	2.22077	434002.80	3711439.15	2.21177
434005.40	3711459.95	2.20627	433988.06	3711492.32	2.08503
433968.12	3711503.88	2.01809	433948.18	3711515.43	1.98440
433928.24	3711526.99	1.94250	433908.30	3711538.55	1.90621
433882.08	3711572.43	1.86664	433875.79	3711594.76	1.83043
433869.51	3711617.08	1.76948	433863.22	3711639.41	1.71088
433856.94	3711661.73	1.66071	433850.65	3711684.05	1.60753
433844.37	3711706.38	1.55343	433815.54	3711730.87	1.46945
433793.00	3711733.04	1.42415	433770.46	3711735.20	1.37735
433734.05	3711751.24	1.30178	433735.79	3711782.01	1.29047
433751.39	3711798.92	1.30490	433767.00	3711815.83	1.32532
433785.63	3711854.84	1.33045	433788.67	3711351.34	1.18185
433699.10	3710326.79	1.13487	433703.64	3710351.34	1.18185
433708.17	3710375.88	1.23304	433712.71	3710400.42	1.28541
433717.24	3710424.96	1.33857	433721.78	3710449.50	1.39154
433726.31	3710474.04	1.44311	433730.85	3710498.59	1.50043
433735.38	3710523.13	1.56001	433739.92	3710547.67	1.62042
433749.84	3710594.17	1.72610	433755.24	3710616.13	1.77171
433760.63	3710638.10	1.82376	433766.03	3710660.06	1.87290
433771.42	3710682.02	1.91730	433776.82	3710703.98	1.95274
433782.21	3710725.95	1.98414	433787.61	3710747.91	2.01930
433787.80	3710794.15	2.08462	433782.60	3710818.42	2.13409
433777.39	3710842.70	2.15252	433790.11	3710874.48	2.21050
433808.02	3710882.00	2.28693	433823.77	3710909.88	2.35690
433821.61	3710930.26	2.29700	433819.44	3710950.63	2.20990
433801.23	3710982.70	2.05182	433785.20	3710994.41	1.98595
433769.16	3711006.11	1.92563	433752.83	3711040.64	1.83060
433752.54	3711063.47	1.77229	433752.26	3711086.30	1.73733
433751.97	3711109.13	1.71726	433751.68	3711131.96	1.70365
433764.11	3711171.84	1.67934	433776.82	3711188.89	1.65550
433789.54	3711205.94	1.66318	433802.25	3711222.99	1.70015
433814.96	3711240.04	1.73639	433842.24	3711271.31	1.77552
433856.81	3711285.53	1.76764	433871.37	3711299.74	1.79128
433885.94	3711313.96	1.83114	433923.47	3711335.12	1.95028
433946.45	3711342.05	2.04352	433969.42	3711348.99	2.13687

, L0000011   , L0000012   , L0000013   ,
                L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
                L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

     X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        433702.31   3710264.05   26.01292 (21011719)   433752.31
3710264.05   26.82642 (20121403)
        433802.31   3710264.05   29.37652 (20121403)   433852.31
3710264.05   29.06074 (18121808)
        433702.31   3710314.05   26.37660 (20120903)   433752.31
3710314.05   27.58713 (21011719)
        433802.31   3710314.05   27.78794 (19051106)   433852.31
3710314.05   30.17989 (20121403)
        433752.31   3710364.05   27.96308 (20120903)   433802.31
3710364.05   28.87158 (19051106)
        433852.31   3710364.05   28.95489 (17062006)   433902.31
3710364.05   31.10391 (18121808)
        433752.31   3710414.05   29.91343 (21011208)   433802.31
3710414.05   29.37955 (19101007)
        433852.31   3710414.05   30.49101 (19051106)   433902.31
3710414.05   30.81372 (20121403)
        433752.31   3710464.05   31.08372 (20122108)   433802.31
3710464.05   31.73103 (21011208)
        433852.31   3710464.05   31.04187 (19101007)   433902.31
3710464.05   32.35677 (19051106)
        433752.31   3710514.05   31.51081 (20011508)   433802.31
3710514.05   32.98223 (20122108)
        433852.31   3710514.05   32.96553 (21011208)   433902.31
3710514.05   32.92602 (19101007)
        434452.31   3710514.05   47.25386 (17020808)   434502.31
3710514.05   46.42481 (18121017)
        433752.31   3710564.05   32.18334 (18011208)   433802.31
3710564.05   33.40991 (20011508)
        433852.31   3710564.05   33.57209 (20122108)   433902.31
3710564.05   34.96262 (21011208)
        434452.31   3710564.05   51.85020 (17020808)   434502.31
3710564.05   51.01263 (17012108)
        434552.31   3710564.05   49.85385 (20122924)   433802.31
3710614.05   34.71220 (18011208)
3711876.95   1.31475
        433791.70   3711899.05   1.30529   433789.28
3711944.69   1.27638
        433783.83   3711968.22   1.27094   433778.38
3711991.75   1.25943
        433772.94   3712015.29   1.23769   433767.49
3712038.82   1.21218
        433762.04   3712062.35   1.18848   433735.78
3712075.48   1.16368
        433714.98   3712065.07   1.17322   433694.17
3712054.67   1.17877
        433673.37   3712044.26   1.17936   433652.56
3712033.86   1.17375
        433631.75   3712023.46   1.16257   433610.95
3712013.05   1.14773
        433588.98   3712023.46   1.11631   433587.83
3712044.26   1.10004
        433606.98   3712073.00   1.10518   433627.29
3712080.92   1.11775
        433647.60   3712088.85   1.13049   433667.92
3712096.78   1.14119
        433688.23   3712104.71   1.13922   433708.54
3712112.63   1.11972
        433729.71   3712143.10   1.09383   433730.58
3712165.64   1.07690
        433731.45   3712188.18   1.06299   433746.18
3712224.59   1.05143
        433760.06   3712238.46   1.05663   433773.93
3712252.33   1.06076
        433810.34   3712268.37   1.08094   433832.88
3712270.54   1.09797
        433855.42   3712272.70   1.11804   433876.80
3712293.37   1.12628
        433875.65   3712311.86   1.10292   433888.17
3712349.61   1.06253
        433901.86   3712368.86   1.04428   433915.54
3712388.10   1.03534

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   , L0000007   , L0000008   , L0000009   , L0000010

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
434802.31	3710814.05	60.09769	(17021521)	434852.31	3710814.05	58.77041	(21020808)
433802.31	3710864.05	51.53655	(21090405)	433852.31	3710864.05	50.92812	(21090405)
433902.31	3710864.05	43.77357	(21090405)	433952.31	3710864.05	44.34761	(19120805)
434002.31	3710864.05	46.98073	(19120805)	434602.31	3710864.05	75.28104	(17072906)
434652.31	3710864.05	66.94478	(20010218)	434702.31	3710864.05	66.70978	(21120408)
434752.31	3710864.05	62.25606	(21011518)	434802.31	3710864.05	60.50712	(21010818)
434852.31	3710864.05	61.75134	(21020808)	434902.31	3710864.05	58.56966	(20123001)
433852.31	3710914.05	52.84269	(21090405)	433902.31	3710914.05	54.18984	(21090405)
433952.31	3710914.05	51.61861	(21090405)	434002.31	3710914.05	48.08163	(19121808)
434652.31	3710914.05	73.36400	(18120819)	434702.31	3710914.05	72.03955	(21120408)
434752.31	3710914.05	65.49636	(21011518)	434802.31	3710914.05	63.29126	(21051206)
434852.31	3710914.05	61.62691	(21020808)	434902.31	3710914.05	60.42384	(17052906)
434952.31	3710914.05	59.98711	(21010717)	433852.31	3710614.05	33.54562	(20011508)
433902.31	3710614.05	35.58510	(20122108)	434452.31	3710614.05	55.93862	(17020808)
434502.31	3710614.05	52.17330	(17012108)	434552.31	3710614.05	52.30471	(19120518)
434602.31	3710614.05	52.42660	(21121818)	434652.31	3710614.05	51.75295	(19122017)
433802.31	3710664.05	35.93887	(19121508)	433852.31	3710664.05	35.64499	(18011208)
433902.31	3710664.05	35.25119	(20011508)	434502.31	3710664.05	54.30032	(17020808)
434552.31	3710664.05	54.50753	(17012108)	434602.31	3710664.05	55.38010	(17072906)
434652.31	3710664.05	53.69683	(20122403)	434702.31	3710664.05	54.25301	(20020719)
433802.31	3710714.05	38.30983	(19120805)	433852.31	3710714.05	37.14251	(19121508)
433902.31	3710714.05	36.96193	(18011208)	433952.31	3710714.05	37.28283	(18011108)
434002.31	3710714.05	39.69394	(20122108)	434502.31	3710714.05	61.32958	(17020808)
434552.31	3710714.05	59.65613	(17012108)	434602.31	3710714.05	59.42005	(17072906)
434652.31	3710714.05	55.91572	(20010218)	434702.31	3710714.05	56.57464	(18010608)
434752.31	3710714.05	56.40794	(18011118)	433802.31	3710764.05	39.45357	(19120805)
433852.31	3710764.05	41.31026	(19120805)	433902.31	3710764.05	38.11252	(19121508)
433952.31	3710764.05	39.79938	(18121508)	434552.31	3710764.05	65.28581	(17012108)
434602.31	3710764.05	63.05167	(17072906)	434652.31	3710764.05	58.14406	(20010218)
434702.31	3710764.05	60.08621	(18010608)	434752.31	3710764.05	58.77702	(18010519)
434802.31	3710764.05	58.27553	(19121018)	433802.31	3710814.05	44.16547	(21090405)
433852.31	3710814.05	40.53098	(19121808)	433902.31	3710814.05	43.14360	(19120805)
433952.31	3710814.05	41.83281	(19120805)	434002.31	3710814.05	43.75247	(18121508)
434552.31	3710814.05	71.75836	(17012108)	434602.31	3710814.05	68.41480	(17072906)
434652.31	3710814.05	61.70428	(20010218)	434702.31	3710814.05	63.35171	(21120408)
434752.31	3710814.05	60.75958	(17121818)				

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3711164.05       54.86297  (19121506)
        434052.31   3711164.05       61.16068  (19121506)                434102.31
3711164.05       66.47369  (19121506)
        434752.31   3711164.05      109.42150  (17052906)                435052.31
3711164.05       64.92457  (19032918)
↑ *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                  PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                 L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                 L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
        435102.31   3711164.05       62.50283  (18022419)                433802.31
3711214.05       37.97781  (21110503)
        433852.31   3711214.05       41.60572  (21110503)                433902.31
3711214.05       45.51303  (21110503)
        433952.31   3711214.05       49.54204  (21110503)                434002.31
3711214.05       53.54534  (21110503)
        434052.31   3711214.05       57.32779  (21110503)                434102.31
3711214.05       60.60051  (21110503)
        434952.31   3711214.05       83.72467  (21061019)                435002.31
3711214.05       73.49828  (17020718)
        435052.31   3711214.05       70.30039  (21072606)                435102.31
3711214.05       66.45265  (21072606)
        435152.31   3711214.05       61.43243  (21072606)                433852.31
3711264.05       43.89837  (20020723)
        433902.31   3711264.05       46.14880  (20020723)                433952.31
3711264.05       48.69701  (20020723)
3710964.05       51.97435  (18121805)
        433902.31   3710964.05       51.89250  (18121805)                433952.31
3710964.05       52.93678  (21090405)
        434002.31   3710964.05       56.52978  (21090405)                434052.31
3710964.05       55.86345  (21090405)
        434652.31   3710964.05       81.11237  (19091320)                434702.31
3710964.05       77.41852  (21120408)
        434752.31   3710964.05       69.44888  (17021521)                434802.31
3710964.05       68.48597  (21020808)
        434852.31   3710964.05       62.88645  (17052906)                434902.31
3710964.05       61.12635  (17052906)
        434952.31   3710964.05       60.01266  (20121617)                433802.31
3711014.05       43.28431  (20101104)
        433852.31   3711014.05       47.66591  (18121805)                433902.31
3711014.05       51.24227  (18121805)
        433952.31   3711014.05       54.02156  (18121805)                434002.31
3711014.05       54.45564  (18121805)
        434052.31   3711014.05       59.17028  (21090405)                434702.31
3711014.05       83.36649  (21120408)
        434752.31   3711014.05       75.60168  (21010818)                434802.31
3711014.05       72.65708  (21020808)
        434852.31   3711014.05       68.39362  (17052906)                434902.31
3711014.05       63.08272  (20123018)
        434952.31   3711014.05       63.31675  (21072406)                435002.31
3711014.05       60.92951  (20012618)
        433802.31   3711064.05       45.38931  (19121506)                433852.31
3711064.05       47.06380  (20112424)
        433902.31   3711064.05       45.47639  (20112424)                433952.31
3711064.05       50.27964  (20101104)
        434002.31   3711064.05       54.86302  (20101104)                434052.31
3711064.05       60.65773  (18121805)
        434752.31   3711064.05       85.55356  (21020808)                434802.31
3711064.05       78.02380  (17052906)
        434852.31   3711064.05       72.72872  (21010717)                434902.31
3711064.05       69.52085  (21072406)
        434952.31   3711064.05       66.14606  (21062406)                433752.31
3711114.05       39.92336  (19121506)
        433802.31   3711114.05       44.09901  (19121506)                433852.31
3711114.05       47.34800  (19121506)
        433902.31   3711114.05       49.64571  (19121506)                433952.31
3711114.05       52.14202  (19121506)
        434002.31   3711114.05       54.86082  (20112424)                434052.31
3711114.05       56.19111  (20101104)
        434752.31   3711114.05       96.87931  (21020808)                434802.31
3711114.05       87.54721  (21010717)
        434852.31   3711114.05       81.05235  (21072406)                433802.31
3711164.05       40.19281  (21110503)
        433852.31   3711164.05       41.61637  (21110503)                433902.31
3711164.05       42.73591  (21110503)
        433952.31   3711164.05       48.28602  (19121506)                434002.31
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       434102.31   3711464.05       50.52394  (19011808)               434852.31
3711464.05      124.23461  (17070719)
       434902.31   3711464.05      111.78321  (18070106)               434952.31
3711464.05      105.21553  (17122019)
       435002.31   3711464.05       93.91885  (17120317)               435052.31
3711464.05       84.82731  (17120317)
       435102.31   3711464.05       76.86906  (20012117)               435152.31
3711464.05       69.91402  (20012117)
       435202.31   3711464.05       62.07939  (20012117)               435252.31
3711464.05       57.19755  (21010117)
       435302.31   3711464.05       52.75591  (21010117)               435352.31
3711464.05       49.80732  (21010117)
       435402.31   3711464.05       46.67820  (20020818)               433952.31
3711514.05       42.45168  (19011808)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                     ***       11:24:19

                               PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                           *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                               INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
       434002.31   3711514.05       43.32099  (19101307)               434052.31
3711514.05       45.73910  (19101307)
       434852.31   3711514.05      113.33163  (19122917)               434902.31
3711514.05       99.27265  (18122117)
       434952.31   3711514.05       90.07944  (20062106)               435002.31
3711514.05       86.21197  (18070106)
       435052.31   3711514.05       81.80638  (17122019)               435102.31
       434002.31   3711264.05       51.48182  (20020723)               434052.31
3711264.05       54.50408  (20020723)
       434102.31   3711264.05       57.75320  (20020723)               434902.31
3711264.05      107.84929  (21121419)
       434952.31   3711264.05       91.91226  (21072606)               435002.31
3711264.05       81.22738  (20122117)
       435052.31   3711264.05       73.42028  (20122117)               435102.31
3711264.05       68.01395  (20122117)
       435152.31   3711264.05       63.20696  (18031507)               435202.31
3711264.05       59.19183  (18031507)
       433902.31   3711314.05       46.43469  (20020723)               433952.31
3711314.05       49.99670  (20020723)
       434002.31   3711314.05       54.08237  (20020723)               434052.31
3711314.05       58.84253  (20020723)
       434852.31   3711314.05      157.36779  (21101617)               434902.31
3711314.05      120.10486  (18122503)
       434952.31   3711314.05      102.15588  (18122503)               435002.31
3711314.05       87.42450  (19121517)
       435052.31   3711314.05       76.75531  (19121517)               435102.31
3711314.05       69.85495  (19121517)
       435152.31   3711314.05       64.83164  (18122503)               435202.31
3711314.05       59.77992  (18122503)
       435252.31   3711314.05       56.14364  (18122503)               434002.31
3711364.05       44.76061  (18012918)
       434052.31   3711364.05       48.38097  (18012918)               434852.31
3711364.05      180.47156  (21101617)
       434902.31   3711364.05      133.14664  (21101617)               434952.31
3711364.05      109.61394  (19012101)
       435002.31   3711364.05       95.58423  (19012101)               435052.31
3711364.05       83.43082  (19012101)
       435102.31   3711364.05       72.36680  (17121917)               435152.31
3711364.05       64.47118  (19021618)
       435202.31   3711364.05       59.00129  (19021618)               435252.31
3711364.05       54.67047  (19021618)
       435302.31   3711364.05       51.68542  (19021618)               434002.31
3711414.05       45.30125  (18012708)
       434052.31   3711414.05       47.58921  (18012708)               434152.31
3711414.05       55.29826  (18011820)
       434202.31   3711414.05       61.10014  (18011820)               434902.31
3711414.05      128.39238  (17120317)
       434952.31   3711414.05      110.29666  (17022318)               435002.31
3711414.05       96.07287  (17022318)
       435052.31   3711414.05       85.76106  (21010117)               435102.31
3711414.05       74.65854  (21010117)
       435152.31   3711414.05       66.68741  (21010117)               435202.31
3711414.05       59.83674  (17121917)
       435252.31   3711414.05       55.69120  (17121917)               435302.31
3711414.05       52.40732  (17121917)
       435352.31   3711414.05       49.96942  (17121917)               434052.31
3711464.05       47.97103  (19011808)
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3711664.05       59.18485  (19062506)
        435152.31   3711664.05       57.62198  (20062106)               435202.31
3711664.05       52.92333  (20062106)
        435252.31   3711664.05       50.71754  (18070106)               435302.31
3711664.05       47.28887  (18070106)
        435352.31   3711664.05       43.17394  (18070106)               435402.31
3711664.05       40.75525  (18031318)
        435452.31   3711664.05       40.14261  (18031318)               433852.31
3711714.05       37.91525  (18010108)
        433902.31   3711714.05       39.32913  (21012308)               433952.31
3711714.05       42.37795  (21012308)
        434002.31   3711714.05       44.05062  (20050504)               434052.31
3711714.05       46.34139  (20050504)
        434102.31   3711714.05       45.28770  (20051206)               434152.31
3711714.05       52.83862  (20030803)
        434202.31   3711714.05       56.31658  (20091403)               434252.31
3711714.05       59.68612  (21090701)
        434302.31   3711714.05       60.36154  (21090701)               434352.31
3711714.05       67.01040  (19120804)
        434902.31   3711714.05       71.31958  (19012018)               434952.31
3711714.05       66.95294  (21122817)
        435002.31   3711714.05       61.49232  (21123118)               435052.31
3711714.05       59.38523  (20051106)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

                                PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                            INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)

3711514.05       73.87379  (17020519)
        435152.31   3711514.05       68.28980  (17120317)               435202.31
3711514.05       62.59844  (20012117)
        435252.31   3711514.05       59.34097  (20012117)               435302.31
3711514.05       55.12129  (20012117)
        435352.31   3711514.05       50.24863  (20012117)               433902.31
3711564.05       40.77822  (19101307)
        433952.31   3711564.05       42.65540  (21120808)               434002.31
3711564.05       44.98955  (21120808)
        434052.31   3711564.05       46.69468  (21120808)               434852.31
3711564.05      103.24253  (18021605)
        434902.31   3711564.05       92.51059  (19122917)               434952.31
3711564.05       81.55642  (17021119)
        435002.31   3711564.05       77.21091  (20062106)               435052.31
3711564.05       70.26446  (20062106)
        435102.31   3711564.05       70.62124  (18070106)               435152.31
3711564.05       66.02147  (17122019)
        435202.31   3711564.05       60.83285  (17020519)               435252.31
3711564.05       55.75265  (17120317)
        435302.31   3711564.05       52.06979  (17120317)               435352.31
3711564.05       49.91219  (20012117)
        433902.31   3711614.05       42.06258  (21120808)               433952.31
3711614.05       42.99874  (21120808)
        434002.31   3711614.05       44.88741  (20120408)               434052.31
3711614.05       46.15654  (20120408)
        434102.31   3711614.05       48.28372  (21012308)               434852.31
3711614.05       92.18034  (20031318)
        434902.31   3711614.05       85.00007  (18021605)               434952.31
3711614.05       77.56883  (19122917)
        435002.31   3711614.05       70.64335  (21032407)               435052.31
3711614.05       66.17285  (19062506)
        435102.31   3711614.05       63.93308  (20062106)               435152.31
3711614.05       61.53383  (18022222)
        435202.31   3711614.05       58.75165  (18022222)               435252.31
3711614.05       54.45190  (18070106)
        435302.31   3711614.05       49.04007  (18031318)               435352.31
3711614.05       44.30945  (18031318)
        435402.31   3711614.05       42.81020  (17120317)               433902.31
3711664.05       41.31717  (20120408)
        433952.31   3711664.05       42.38826  (18010108)               434002.31
3711664.05       43.75808  (21012308)
        434052.31   3711664.05       46.05121  (21012308)               434102.31
3711664.05       49.46750  (20050504)
        434302.31   3711664.05       66.63899  (21090701)               434352.31
3711664.05       68.91804  (19120804)
        434852.31   3711664.05       90.17477  (17072004)               434902.31
3711664.05       78.32372  (21021319)
        434952.31   3711664.05       71.39665  (21123118)               435002.31
3711664.05       67.30533  (20051106)
        435052.31   3711664.05       63.14443  (21032407)               435102.31
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435302.31   3711814.05   41.75803 (19062506)   435352.31
3711814.05   39.98882 (20062106)
435402.31   3711814.05   37.64421 (20062106)   435452.31
3711814.05   33.89641 (19011317)
435502.31   3711814.05   32.25731 (20010917)   435552.31
3711814.05   33.14517 (18070106)
433802.31   3711864.05   37.18998 (20050504)   433852.31
3711864.05   36.08665 (20050502)
433902.31   3711864.05   36.60189 (18121608)   433952.31
3711864.05   41.66747 (20030803)
434002.31   3711864.05   43.86339 (20030803)   434052.31
3711864.05   43.48867 (21031805)
434102.31   3711864.05   45.75116 (21090701)   434152.31
3711864.05   45.77623 (21090701)
434902.31   3711864.05   65.27923 (17093002)   434952.31
3711864.05   61.72497 (17072004)
435002.31   3711864.05   52.52474 (21070106)   435052.31
3711864.05   48.52682 (21021319)
435102.31   3711864.05   46.37718 (18021605)   435152.31
3711864.05   42.87350 (21123118)
435202.31   3711864.05   43.96266 (20051106)   435252.31
3711864.05   41.85549 (21032407)
435302.31   3711864.05   39.67908 (21032407)   435352.31
3711864.05   37.28143 (19062506)
435402.31   3711864.05   35.75541 (19062506)   435452.31
3711864.05   34.88371 (20062106)
435502.31   3711864.05   32.92953 (20062106)   433802.31
3711914.05   34.57720 (20050502)
433852.31   3711914.05   37.24466 (20030803)   433902.31
3711914.05   40.08423 (20030803)
433952.31   3711914.05   41.56270 (20030803)   434002.31
3711914.05   42.17819 (21031805)

↑ *** AERMOD - VERSION 23132 ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***   07/30/24
*** AERMET - VERSION 22112 ***   ***
***   11:24:19

PAGE 41
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
L0000006   , L0000007   , L0000008   , L0000009   , L0000010
, L0000011   , L0000012   , L0000013   ,
L0000014   , L0000015   , L0000016   , L0000017   , L0000018
, L0000019   , L0000020   , L0000021   ,
L0000022   , L0000023   , L0000024   , L0000025   , L0000026
, L0000027   , L0000028   , . . .   ,

- -
- -
435102.31   3711714.05   57.22361 (21032407)   435152.31
3711714.05   52.47958 (19062506)
435202.31   3711714.05   50.87988 (20062106)   435252.31
3711714.05   49.06792 (20062106)
435302.31   3711714.05   43.11178 (19090519)   435352.31
3711714.05   40.70559 (18070106)
435402.31   3711714.05   39.30538 (18070106)   435452.31
3711714.05   37.82325 (18070106)
433752.31   3711764.05   34.09581 (18010108)   433802.31
3711764.05   35.26742 (21012308)
433852.31   3711764.05   38.15512 (21012308)   433902.31
3711764.05   39.25614 (21012308)
433952.31   3711764.05   41.10616 (20050504)   434002.31
3711764.05   41.48124 (20050502)
434052.31   3711764.05   44.25675 (20030803)   434102.31
3711764.05   49.41182 (20030803)
434152.31   3711764.05   51.06594 (20091403)   434302.31
3711764.05   60.44910 (19120804)
434352.31   3711764.05   62.57716 (21111806)   434902.31
3711764.05   74.01216 (17072004)
434952.31   3711764.05   62.25250 (21070106)   435002.31
3711764.05   57.58488 (18021605)
435052.31   3711764.05   53.86349 (21123118)   435102.31
3711764.05   53.08265 (20051106)
435152.31   3711764.05   50.58537 (21032407)   435202.31
3711764.05   46.05808 (17021119)
435252.31   3711764.05   45.36767 (19062506)   435302.31
3711764.05   44.37218 (20062106)
435352.31   3711764.05   40.12295 (20062106)   435402.31
3711764.05   36.12493 (20010917)
435452.31   3711764.05   35.68280 (18070106)   435502.31
3711764.05   35.94320 (18070106)
433802.31   3711814.05   36.18157 (21012308)   433852.31
3711814.05   37.74928 (20050504)
433902.31   3711814.05   38.33101 (20050504)   433952.31
3711814.05   38.28109 (20051206)
434002.31   3711814.05   42.63487 (20030803)   434052.31
3711814.05   46.20896 (20030803)
434102.31   3711814.05   46.25487 (20091403)   434152.31
3711814.05   49.48245 (21090701)
434352.31   3711814.05   58.20520 (20051605)   434952.31
3711814.05   58.64043 (17072004)
435002.31   3711814.05   54.75676 (20031318)   435052.31
3711814.05   51.43804 (18021605)
435102.31   3711814.05   47.83874 (21123118)   435152.31
3711814.05   47.88773 (20051106)
435202.31   3711814.05   45.63542 (21032407)   435252.31
3711814.05   42.58957 (21032407)

3712014.05 44.48478 (19120804)
434902.31 3712014.05 70.57664 (18122022) 434952.31
3712014.05 58.51922 (17093002)
435002.31 3712014.05 52.31292 (17072004) 435052.31
3712014.05 45.54701 (17072004)
435102.31 3712014.05 41.04230 (21070106) 435152.31
3712014.05 37.66032 (20031318)
435202.31 3712014.05 35.82506 (19090420) 435252.31
3712014.05 34.37818 (18021605)
435302.31 3712014.05 33.59941 (21092521) 435352.31
3712014.05 33.94435 (20051106)
433602.31 3712064.05 31.72000 (21101622) 433652.31
3712064.05 33.16572 (21101622)
433702.31 3712064.05 37.10454 (20030803) 433802.31
3712064.05 38.60754 (20091403)
433852.31 3712064.05 38.40923 (21031805) 433902.31
3712064.05 39.55666 (21090701)
433952.31 3712064.05 39.58390 (21090701) 434002.31
3712064.05 38.51398 (19120804)
434052.31 3712064.05 42.60349 (19120804) 434852.31
3712064.05 64.45502 (21021001)
434902.31 3712064.05 65.76222 (18122022) 434952.31
3712064.05 62.24513 (18122022)
435002.31 3712064.05 51.50770 (17093002) 435052.31
3712064.05 46.18850 (17072004)
435102.31 3712064.05 39.20465 (21051406) 435152.31
3712064.05 37.49195 (21070106)
435202.31 3712064.05 34.60770 (21021319) 435252.31
3712064.05 33.44258 (17071106)
435302.31 3712064.05 33.22231 (20011318) 433752.31
3712114.05 36.67616 (20091403)
433802.31 3712114.05 37.75673 (21031805) 433852.31
3712114.05 38.04732 (21090701)
433902.31 3712114.05 38.04267 (21090701) 433952.31
3712114.05 37.37531 (19120804)
434002.31 3712114.05 40.54536 (19120804) 434052.31
3712114.05 40.24985 (19120804)
434852.31 3712114.05 60.26635 (19102119) 434902.31
3712114.05 58.05800 (18122022)
434952.31 3712114.05 62.29670 (18122022) 435002.31
3712114.05 53.40240 (17093002)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION *** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
434052.31	3711914.05	43.39915	(21090701)	434102.31	3711914.05	42.86563	(21090701)
434152.31	3711914.05	45.77360	(19120804)	434902.31	3711914.05	70.83410	(17093002)
434952.31	3711914.05	58.77552	(17072004)	435002.31	3711914.05	51.53108	(17072004)
435052.31	3711914.05	47.45397	(21070106)	435102.31	3711914.05	43.49756	(21122817)
435152.31	3711914.05	41.69305	(18021605)	435202.31	3711914.05	38.95542	(21123118)
435252.31	3711914.05	40.47633	(20051106)	435302.31	3711914.05	37.87969	(19122917)
435352.31	3711914.05	35.90468	(21032407)	435402.31	3711914.05	33.29664	(20112417)
435452.31	3711914.05	33.33726	(19062506)	433802.31	3711964.05	38.02364	(20030803)
433852.31	3711964.05	40.26392	(20030803)	433902.31	3711964.05	38.89259	(20091403)
433952.31	3711964.05	40.68545	(21031805)	434002.31	3711964.05	42.50135	(21090701)
434052.31	3711964.05	41.76836	(21090701)	434102.31	3711964.05	43.10721	(19120804)
434902.31	3711964.05	72.95259	(18122022)	434952.31	3711964.05	55.48505	(17093002)
435002.31	3711964.05	53.39375	(17072004)	435052.31	3711964.05	44.33125	(21051406)
435102.31	3711964.05	41.83318	(20031318)	435152.31	3711964.05	39.33039	(21122817)
435202.31	3711964.05	37.81399	(18021605)	435252.31	3711964.05	36.21640	(21123118)
435302.31	3711964.05	36.71982	(20051106)	435352.31	3711964.05	34.34885	(19122917)
433602.31	3712014.05	33.86844	(20050502)	433802.31	3712014.05	40.20066	(20030803)
433852.31	3712014.05	39.14913	(20091403)	433902.31	3712014.05	38.72778	(21031805)
433952.31	3712014.05	40.57642	(21090701)	434002.31	3712014.05	40.48087	(21090701)
434052.31	3712014.05	41.26375	(19120804)	434102.31			

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        434952.31   3712214.05       53.68478  (18122022)              435002.31
3712214.05       53.78754  (18122022)
        435052.31   3712214.05       47.71051  (17093002)              435102.31
3712214.05       41.26877  (17072004)
        435152.31   3712214.05       41.44185  (17072004)              435202.31
3712214.05       34.52073  (21121217)
        435252.31   3712214.05       33.27777  (19012018)              433802.31
3712264.05       31.98291  (21090701)
        433852.31   3712264.05       36.20433  (19120804)              433902.31
3712264.05       38.24781  (19120804)
        433952.31   3712264.05       35.68596  (19120804)              434002.31
3712264.05       37.97712  (21111806)
        434052.31   3712264.05       38.10622  (21111806)              434952.31
3712264.05       48.10167  (21041006)
        435002.31   3712264.05       51.88024  (18122022)              435052.31
3712264.05       48.09520  (17093002)
        435102.31   3712264.05       40.51468  (20112420)              435152.31
3712264.05       40.78134  (17072004)
        435202.31   3712264.05       37.58282  (17072004)              433902.31
3712314.05       35.30358  (19120804)
        433952.31   3712314.05       35.90187  (21111806)              434002.31
3712314.05       37.03852  (21111806)
        434052.31   3712314.05       37.17509  (20051605)              435002.31
3712314.05       48.35184  (18122022)
        435052.31   3712314.05       46.37443  (18122022)              435102.31
3712314.05       42.44836  (17093002)
        435152.31   3712314.05       37.63947  (17072004)              435202.31
3712314.05       38.30218  (17072004)
        433902.31   3712364.05       33.78205  (20092402)              433952.31
3712364.05       35.72787  (21111806)
        434002.31   3712364.05       35.23914  (20051605)              435052.31
3712364.05       45.63303  (18122022)
        435102.31   3712364.05       42.61040  (17093002)              435152.31
3712364.05       35.06499  (20112420)
        435202.31   3712364.05       36.85587  (17072004)              435102.31
3712414.05       41.32730  (17093002)
        435152.31   3712414.05       36.85749  (17093002)              435202.31
3712414.05       33.88244  (17072004)
        435152.31   3712464.05       37.73913  (17093002)              435202.31
3712464.05       32.02596  (20112420)
        434741.14   3711168.41      112.00997  (17052906)              434716.31
3711074.44       90.77550  (21011518)
        434678.19   3711011.50       87.34971  (21120408)              434657.80
3710979.58       83.08924  (18010608)
        434615.25   3710921.07       82.59162  (17072906)              434571.54
3710874.19       79.16810  (17012108)
        434560.50   3710848.42       76.49855  (17012108)              434528.60
3710778.48       66.25275  (17012108)
        434522.46   3710725.71       61.05062  (17012108)              434488.10
3710708.53       63.17561  (17020808)
```

```
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
        435052.31   3712114.05       44.48286  (17072004)              435102.31
3712114.05       41.09727  (17072004)
        435152.31   3712114.05       35.92818  (21070106)              435202.31
3712114.05       35.15355  (21070106)
        435252.31   3712114.05       33.66466  (17071106)              435302.31
3712114.05       32.03444  (18021605)
        433752.31   3712164.05       36.43617  (21031805)              433802.31
3712164.05       37.07595  (21090701)
        433852.31   3712164.05       36.52205  (21090701)              433902.31
3712164.05       34.98134  (19120804)
        433952.31   3712164.05       39.93999  (19120804)              434002.31
3712164.05       39.45356  (19120804)
        434052.31   3712164.05       39.52487  (21111806)              434852.31
3712164.05       56.88296  (19102119)
        434902.31   3712164.05       53.82408  (21041006)              434952.31
3712164.05       58.52830  (18122022)
        435002.31   3712164.05       53.38883  (17093002)              435052.31
3712164.05       42.10025  (21090401)
        435102.31   3712164.05       43.60989  (17072004)              435152.31
3712164.05       36.41715  (17072004)
        435202.31   3712164.05       35.33238  (21070106)              435252.31
3712164.05       33.79185  (20031318)
        433752.31   3712214.05       35.93112  (21090701)              433802.31
3712214.05       36.09216  (21090701)
        433852.31   3712214.05       33.56023  (19120804)              433902.31
3712214.05       38.45835  (19120804)
        433952.31   3712214.05       39.26343  (19120804)              434002.31
3712214.05       36.46974  (21111806)
        434052.31   3712214.05       40.09879  (21111806)              434902.31
3712214.05       49.35097  (20092222)
```

3711490.84 128.54540 (19122917)
434804.17 3711580.35 113.22661 (17072004) 434838.82
3711688.63 92.08077 (17072004)
434882.13 3711759.37 77.92995 (17072004) 434926.89
3711799.80 67.17774 (17072004)
434880.69 3711850.33 72.28860 (17093002) 434872.02
3712012.03 68.11532 (18080106)
434807.06 3712128.97 58.86606 (21120323) 434822.94
3712172.28 53.69485 (19102119)
434892.92 3712227.41 49.25893 (19102119) 434967.65
3712291.95 46.82054 (18122022)
435045.78 3712381.98 45.18042 (18122022) 435112.03
3712463.51 40.06143 (18122022)
435173.18 3712488.99 35.76836 (17093002) 435227.53
3712494.08 30.41924 (20112420)
435227.53 3712339.51 36.53650 (17072004) 435244.51
3712229.11 33.61974 (19012018)
435292.07 3712140.78 32.43780 (17071106) 435319.25
3712105.11 32.19202 (17021106)
435368.51 3711996.41 33.80286 (20051106) 435560.44
3711807.87 33.63078 (18070106)
435563.84 3711782.39 33.88535 (18070106) 435516.28
3711743.32 35.59282 (18070106)
435458.53 3711666.89 39.79000 (18031318) 435385.49
3711564.98 48.75877 (20012117)
435361.71 3711551.39 50.70644 (20012117) 435431.35
3711483.45 45.63146 (21010117)
435354.92 3711378.14 49.25883 (18122506) 435213.94
3711259.24 58.14231 (18031507)
435147.70 3711184.50 60.64323 (21072606) 433929.22
3712407.35 34.26263 (21111806)
434034.72 3712360.46 36.51820 (20051605) 434081.62
3712258.86 38.47501 (20051605)
434097.25 3712149.45 42.01146 (21111806) 434097.25
3712028.31 43.89149 (19120804)
434155.86 3711918.90 46.25577 (19120804) 434175.40
3711805.58 51.64110 (21090701)
434194.94 3711739.15 54.15931 (21031805) 434265.27
3711758.68 55.50590 (19120804)
434359.06 3711860.28 55.14566 (20070405) 434351.24
3711629.73 75.09177 (21090701)
434269.18 3711653.18 64.75300 (20091403) 434249.64
3711700.07 59.95108 (21031805)
434140.23 3711707.89 50.50667 (20030803) 434115.50
3711671.48 50.13226 (20050504)
434110.30 3711583.06 49.61620 (20120408) 434089.49
3711551.85 48.75287 (21120808)
434066.95 3711501.56 46.74612 (19101307) 434115.50
3711453.02 52.04343 (19011808)
434184.85 3711446.08 57.98620 (19011808) 434223.00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 ,
L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 ,
L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 ,
L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
434479.51	3710677.86	59.44586	(17020808)	434470.92	3710645.95	57.01362	(17020808)
434423.07	3710595.64	51.90102	(18122019)	434405.89	3710552.69	48.70793	(18122019)
434413.25	3710531.83	47.99823	(17020808)	434456.20	3710460.66	41.64810	(17021222)
434606.05	3710568.55	49.80508	(21020202)	434689.97	3710616.51	50.17509	(19010919)
434797.87	3710732.40	56.12222	(20120617)	434889.78	3710824.32	57.27852	(20021418)
435035.65	3711006.15	59.41500	(17011318)	434959.72	3711068.09	66.30708	(21062406)
434833.84	3711150.01	90.51029	(21072406)	435104.46	3711163.12	62.35974	(18022419)
435039.50	3711148.68	66.23987	(19032918)	434986.08	3711184.77	75.49236	(19032918)
434936.99	3711226.64	88.48192	(18022419)	434874.91	3711265.62	117.08827	(21121419)
434831.60	3711306.04	164.18977	(21101617)	434801.28	3711356.57	266.53016	(21101617)
434857.59	3711402.77	163.92190	(19040418)	434818.61			

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       433876.22   3710230.63       28.00237  (21112723)              433685.50
3710253.17       25.50599  (21011719)
       433744.45   3710572.21       32.51635  (18011208)              433793.00
3710769.87       38.48558  (19120805)
       433772.19   3710866.97       49.58871  (21090405)              433825.94
3710889.51       53.15519  (21090405)
       433817.27   3710971.00       49.36794  (18121805)              433753.12
3711017.81       41.44704  (20112424)
       433751.39   3711154.79       38.36952  (21110503)              433827.68
3711257.09       42.26798  (20020723)
       433900.50   3711328.18       43.24459  (20020723)              433992.39
3711355.92       44.75552  (18012918)
       434008.00   3711480.76       45.77956  (19011808)              433888.36
3711550.11       40.55764  (19101307)
       433838.08   3711728.70       37.20123  (18010108)              433747.92
3711737.37       35.00066  (20120408)
       433720.18   3711765.11       33.74719  (20120408)              433782.60
3711832.73       35.38158  (20091405)
       433794.73   3711921.16       34.23461  (20050502)              433756.59
3712085.88       37.99924  (20091403)
       433590.14   3712002.65       33.93474  (20050504)              433586.67
3712065.07       30.82782  (21101622)
       433728.85   3712120.56       36.71102  (20091403)              433732.31
3712210.72       35.60256  (21090424)
       433787.80   3712266.20       32.80746  (21090701)              433877.96
3712274.87       37.56931  (19120804)
       433874.49   3712330.36       35.31278  (19120804)              434734.93
3711144.92      108.56874  (21020808)
       434728.73   3711121.43      101.84372  (21020808)              434722.52
3711097.93       94.46595  (17021521)
       434703.60   3711053.46       88.37735  (21120408)              434690.90
3711032.48       89.13295  (21120408)
       434668.00   3710995.54       85.10923  (18010608)              434643.62
3710960.08       81.68513  (20010218)
       434629.43   3710940.57       81.37545  (21020221)              434600.68
3710905.44       82.33380  (17072906)
       434586.11   3710889.82       78.89251  (17072906)              434566.02
3710861.31       77.92537  (17012108)
       434552.53   3710830.94       74.32535  (17012108)              434544.55
3710813.45       72.13597  (17012108)
       434536.57   3710795.97       69.37399  (17012108)              434526.55
3710760.89       64.45606  (17012108)
       434524.51   3710743.30       62.77379  (17012108)              434505.28
3710717.12       61.26213  (17020808)
       434483.81   3710693.20       61.26040  (17020808)              434475.21
3710661.91       58.03442  (17020808)
       434454.97   3710629.18       56.66672  (17020808)              434439.02
3710612.41       55.09073  (17020808)
       434414.48   3710574.17       50.31896  (18122019)              434423.99
3710514.04       47.72688  (17020808)
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3711397.53       63.79955  (19123008)
       434177.92   3711392.33       59.30274  (19021508)              434056.55
3711440.88       47.01066  (19011808)
       434080.82   3711366.32       50.86961  (19012108)              434113.77
3711243.22       63.55223  (21110503)
       434169.25   3711172.13       74.06921  (20112424)              434106.83
3711154.79       66.12062  (20112424)
       434075.62   3711104.51       61.55422  (20101104)              434072.15
3711016.08       61.87187  (21090405)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                        ***        11:24:19

                                   PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
       434094.69   3710967.53       53.48479  (19121808)              434034.01
3710896.44       50.68804  (19120805)
       434025.34   3710835.76       45.51330  (18121508)              433997.60
3710764.67       40.52928  (18011208)
       434028.81   3710710.92       41.16413  (20122108)              433976.79
3710712.65       38.30427  (20011508)
       433938.64   3710658.90       36.87101  (20122108)              433947.31
3710612.09       37.30749  (21011208)
       433947.31   3710573.94       35.19911  (19101007)              433942.11
3710527.13       34.28264  (19051106)
       433940.38   3710471.64       32.58502  (17062006)              433924.77
3710400.55       32.06830  (20121403)
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3710793.68       57.09929  (20022018)
       434874.46   3710809.00       57.28234  (21020808)               434904.37
3710842.50       57.79058  (20123005)
       434918.95   3710860.69       57.52811  (20123001)               434933.54
3710878.87       57.89963  (21120118)
       434948.13   3710897.05       59.63497  (21010717)               434962.72
3710915.24       59.02718  (20121617)
       434977.30   3710933.42       58.73946  (20121617)               434991.89
3710951.60       58.89578  (19120517)
       435006.48   3710969.78       58.72758  (17020218)               435021.06
3710987.97       58.87073  (20012618)
       435016.67   3711021.64       60.86235  (17011318)               434997.69
3711037.12       61.88262  (17011318)
       434978.70   3711052.61       63.78057  (21062406)               434941.74
3711079.79       68.14210  (21062406)
       434923.75   3711091.50       70.34698  (21062406)               434905.77
3711103.20       72.83219  (21062406)
       434887.79   3711114.90       75.62063  (21062406)               434869.81
3711126.60       79.38487  (21072406)
       434851.82   3711138.31       84.79737  (21072406)               434810.67
3711154.61       95.00285  (21072406)
       434787.49   3711159.21       99.04629  (19120117)               434764.32
3711163.81      106.66078  (17052906)
       435082.81   3711158.31       63.12800  (21061019)               435061.15
3711153.49       64.62779  (19032918)
       435021.69   3711160.71       69.04521  (19032918)               435003.89
3711172.74       71.83054  (19032918)
       434969.72   3711198.73       79.66458  (19032918)               434953.35
3711212.68       83.44801  (21061019)
       434916.30   3711239.63       96.91476  (18022419)               434895.60
3711252.63      107.54389  (18122505)
       434860.47   3711279.09      132.70663  (19012024)               434846.04
3711292.57      146.20675  (19012024)
       434821.49   3711322.88      219.04550  (21101617)               434811.39
3711339.73      261.28150  (21101617)
       434820.05   3711371.97      209.64733  (19040418)               434838.82
3711387.37      188.46316  (19040418)
       434847.85   3711424.79      142.72277  (18070106)               434838.10
3711446.81      137.37173  (17070719)
       434828.36   3711468.82      135.37275  (17070719)               434815.00
3711513.22      123.60481  (18021605)
       434811.39   3711535.60      118.41109  (21122817)               434807.78
3711557.97      113.21380  (21070106)
       434811.10   3711602.01      110.35092  (17072004)               434818.03
3711623.66      106.71570  (17072004)
       434824.96   3711645.32      102.24939  (17072004)               434831.89
3711666.97       97.29460  (17072004)
       434849.65   3711706.32       88.18148  (17072004)               434860.48
3711724.00       84.48611  (17072004)
       434871.30   3711741.69       81.18207  (17072004)               434897.05
       434434.73   3710496.25       45.90537  (17020808)               434445.46
3710478.45       43.44268  (21013120)
       434474.93   3710474.15       43.01173  (20120618)               434493.66
3710487.63       44.37709  (20120618)
       434512.39   3710501.12       44.71361  (20120618)               434531.13
3710514.61       46.30992  (20122924)
       434549.86   3710528.09       47.09447  (20121619)               434568.59
3710541.58       48.40124  (21013119)
       434587.32   3710555.06       48.76954  (21020202)               434627.03
3710580.54       50.02983  (18120701)
       434648.01   3710592.53       50.06369  (19122017)               434668.99
3710604.52       50.43844  (19122017)
       434705.38   3710633.07       51.88740  (20020719)               434720.80
3710649.62       52.36285  (20020719)
       434736.21   3710666.18       53.74116  (18020819)               434751.63
3710682.73       53.70596  (18011118)
       434767.04   3710699.29       54.83438  (18011118)               434782.46
3710715.84       55.30444  (20120617)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:24:19

                                PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
       434813.19   3710747.72       56.61248  (19121018)               434828.51
3710763.04       57.03258  (21010618)
       434843.83   3710778.36       57.70603  (20022018)               434859.14
```

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                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
        435072.28   3712414.59       43.35124  (18122022)               435085.53
3712430.90       42.45999  (18122022)
        435098.78   3712447.20       41.38703  (18122022)               435132.41
3712472.00       38.74696  (17093002)
        435152.80   3712480.50       37.58086  (17093002)               435191.30
3712490.69       33.57758  (17093002)
        435209.41   3712492.38       31.20988  (20112420)               435227.53
3712472.00       31.69808  (17072004)
        435227.53   3712449.92       33.15108  (17072004)               435227.53
3712427.84       34.31047  (17072004)
        435227.53   3712405.75       35.25003  (17072004)               435227.53
3712383.67       35.99395  (17072004)
        435227.53   3712361.59       36.43884  (17072004)               435230.93
3712317.43       35.81602  (17072004)
        435234.32   3712295.35       34.47296  (17072004)               435237.72
3712273.27       32.31336  (17072004)
        435241.11   3712251.19       33.12003  (19012018)               435254.02
3712211.44       33.11304  (19012018)
        435263.53   3712193.78       33.60837  (20031318)               435273.05
3712176.11       32.90525  (20031318)
        435282.56   3712158.45       32.16896  (17071106)               435305.66
3712122.95       31.70919  (18021605)
        435329.10   3712083.37       32.43763  (20011318)               435338.95
3712061.63       32.24333  (21123118)
        435348.81   3712039.89       32.73007  (20051106)               435358.66
3712018.15       33.79196  (20051106)
        435385.96   3711979.27       33.24385  (21032407)               435403.41
3711962.13       33.47463  (21032407)
        435420.85   3711944.99       32.31971  (17012118)               435438.30
3711927.85       32.85768  (19062506)
        435455.75   3711910.71       33.25544  (19062506)               435473.20
3711893.57       33.58104  (20062106)
        435490.65   3711876.43       33.52926  (20062106)               435508.10
3711859.29       32.38092  (20062106)
        435525.54   3711842.15       31.56367  (19090519)               435542.99
3711825.01       32.03158  (18070106)
        435562.14   3711795.13       33.95124  (18070106)               435547.99
3711769.37       34.47747  (18070106)
        435532.13   3711756.34       35.01879  (18070106)               435501.84
3711724.21       36.07368  (18031318)
        435487.41   3711705.11       37.60342  (18031318)               435472.97
3711686.00       38.92423  (18031318)
        435446.36   3711649.91       40.23237  (18031318)               435434.18
3711632.92       40.53774  (17120317)
3711772.85       74.89046  (17072004)
        434911.97   3711786.32       71.29618  (17072004)               434911.49
3711816.64       68.80776  (17072004)
        434896.09   3711833.49       65.05548  (21090401)               434879.45
3711873.43       74.45114  (18122022)
        434878.21   3711896.53       78.05613  (18122022)               434876.97
3711919.63       79.56736  (18122022)
        434875.74   3711942.73       78.00421  (18122022)               434874.50
3711965.83       75.07186  (18122022)
        434873.26   3711988.93       71.25255  (18122022)               434861.19
3712031.52       70.08268  (18080106)
        434850.37   3712051.01       66.79863  (18080106)               434839.54
3712070.50       64.46590  (19102119)
        434828.71   3712089.99       63.73243  (19102119)               434817.89
3712109.48       61.37152  (19102119)
        434815.00   3712150.63       56.41748  (21051801)               434840.44
3712186.06       53.94100  (19102119)
        434857.93   3712199.85       53.15449  (19102119)               434875.43
3712213.63       51.65611  (19102119)
        434911.60   3712243.55       47.39006  (20092222)               434930.29
3712259.68       47.82298  (21041006)
        434948.97   3712275.82       47.58830  (21041006)               434983.28
3712309.96       46.93030  (18122022)
        434998.90   3712327.96       46.81793  (18122022)               435014.53
3712345.97       46.49636  (18122022)
        435030.15   3712363.97       45.98301  (18122022)               435059.03
3712398.29       44.22370  (18122022)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                  PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
                  L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                  L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
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                L0000014    , L0000015    , L0000016    , L0000017    , L0000018
, L0000019    , L0000020    , L0000021    ,
                L0000022    , L0000023    , L0000024    , L0000025    , L0000026
, L0000027    , L0000028    ,  . . .      ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

     X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -
       434097.25   3712100.99       41.66213  (21111806)               434097.25
3712076.77       40.25316  (21111806)
       434097.25   3712052.54       42.35723  (19120804)               434108.97
3712006.43       44.77265  (19120804)
       434120.69   3711984.55       45.23299  (19120804)               434132.42
3711962.66       45.30420  (19120804)
       434144.14   3711940.78       45.47412  (19120804)               434159.77
3711896.24       45.93119  (19120804)
       434163.68   3711873.57       45.00083  (19120804)               434167.58
3711850.91       46.55822  (21090701)
       434171.49   3711828.24       49.41677  (21090701)               434181.91
3711783.44       52.93474  (21090701)
       434188.43   3711761.29       53.70618  (21031805)               434218.38
3711745.66       56.03980  (21090701)
       434241.83   3711752.17       57.34999  (21090701)               434280.90
3711775.61       58.53110  (19120804)
       434296.53   3711792.55       57.18407  (19120804)               434312.17
3711809.48       56.93052  (21111806)
       434327.80   3711826.41       56.51808  (21111806)               434343.43
3711843.35       56.09192  (20070405)
       434358.28   3711837.22       57.40803  (20070405)               434357.50
3711814.17       58.59532  (20051605)
       434356.71   3711791.12       59.76344  (21111806)               434355.93
3711768.06       62.55602  (21111806)
       434355.15   3711745.01       63.61754  (21111806)               434354.37
3711721.95       65.49219  (19120804)
       434353.59   3711698.90       68.94807  (19120804)               434352.80
3711675.84       69.65041  (19120804)
       434352.02   3711652.79       71.17561  (21090701)               434330.73
3711635.59       71.52770  (21090701)
       434310.21   3711641.46       68.62320  (21031805)               434289.70
3711647.32       66.41769  (20091403)
       434262.67   3711668.81       62.77014  (20091403)               434256.15
3711684.44       60.76630  (21031805)
       434227.76   3711701.63       58.05585  (20091403)               434205.88
       435422.01   3711615.94       42.40917  (17120317)               435409.84
3711598.95       43.90618  (20012117)
       435397.66   3711581.97       46.59274  (20012117)               435373.60
3711558.19       49.73611  (20012117)
       435379.12   3711534.41       49.51615  (20012117)               435396.53
3711517.42       46.26071  (20012117)
       435413.94   3711500.44       46.61976  (21010117)               435418.61
3711465.90       45.98830  (20020818)
       435405.87   3711448.35       45.63816  (20020818)               435393.14
3711430.80       47.56055  (19012101)
       435380.40   3711413.24       48.95328  (19012101)               435367.66
3711395.69       49.08866  (19012101)
       435337.30   3711363.28       50.38709  (18122506)               435319.68
3711348.42       51.12760  (17021619)
       435302.05   3711333.55       52.97300  (17021619)               435284.43
3711318.69       54.58285  (18122503)
       435266.81   3711303.83       54.81565  (20031118)               435249.19
3711288.97       55.05402  (19121517)
       435231.56   3711274.10       56.81247  (18120117)               435197.38
3711240.56       59.70064  (20122117)
       435180.82   3711221.87       59.65028  (18021618)               435164.26
3711203.19       60.59029  (21072606)
       435126.08   3711173.81       60.41741  (18112217)               433950.32
3712397.97       34.60553  (21111806)
       433971.42   3712388.59       34.49765  (21111806)               433992.52
3712379.22       34.86910  (20051605)
       434013.62   3712369.84       36.01231  (20051605)               434044.10
3712340.14       36.59845  (20051605)
       434053.48   3712319.82       37.15398  (20051605)               434062.86
3712299.50       37.62740  (20051605)
       434072.24   3712279.18       37.95582  (20051605)               434084.75
3712236.98       38.27177  (20051605)
       434087.87   3712215.10       39.22642  (21111806)               434091.00
3712193.21       40.44128  (21111806)
       434094.12   3712171.33       41.38413  (21111806)               434097.25
3712125.22       42.16189  (21111806)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                    PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000007    , L0000008    , L0000009    , L0000010
, L0000011    , L0000012    , L0000013    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010 , L0000011 , L0000012 , L0000013 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018 , L0000019 , L0000020 , L0000021 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026 , L0000027 , L0000028 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
434031.12	3710876.21	48.72574	(19120805)	434028.23	3710855.99	45.62001	(19121508)
434018.41	3710817.99	44.76477	(18121508)	434011.47	3710800.22	43.54469	(18011208)
434004.54	3710782.44	42.23548	(18011208)	434008.00	3710746.75	40.36084	(20011508)
434018.41	3710728.84	40.74101	(20122108)	434011.47	3710711.50	40.39847	(20122108)
433994.13	3710712.07	39.05064	(20122108)	433964.07	3710694.73	37.40012	(20011508)
433951.36	3710676.82	36.89205	(20122108)	433942.98	3710635.50	37.55319	(20122108)
433947.31	3710593.01	36.45547	(21011208)	433944.71	3710550.54	34.67982	(19101007)
433941.53	3710508.63	33.98263	(19051106)	433940.96	3710490.14	33.40369	(19051106)
433935.18	3710447.94	32.38756	(20121403)	433929.97	3710424.25	32.37040	(20121403)
433918.70	3710379.31	31.71762	(18121808)	433912.63	3710358.07	31.18154	(18121808)
433906.56	3710336.83	30.67442	(18121808)	433900.50	3710315.59	30.16708	(18121808)
433894.43	3710294.35	29.56506	(21011008)	433888.36	3710273.11	29.03134	(21011008)
433882.29	3710251.87	28.36362	(21011008)	433852.38	3710233.45	28.29493	(21011008)
434183.99	3711704.76	56.00017	(20030803)	434162.11	3711706.33	53.67501	(20030803)
434127.87	3711689.69	48.17698	(20050502)	434114.20	3711649.38	50.11224	(20050504)
434112.90	3711627.27	49.44284	(21012308)	434111.60	3711605.17	48.79749	(18010108)
434099.90	3711567.46	49.11208	(20120408)	434081.98	3711535.09	48.42613	(21120808)
434074.46	3711518.32	46.82569	(17060406)	434083.13	3711485.38	48.18381	(19122708)
434099.32	3711469.20	49.87225	(19011808)	434138.62	3711450.71	53.99834	(19011808)
434161.73	3711448.39	55.94824	(19011808)	434197.57	3711429.90	60.24904	(19011808)
434210.28	3711413.71	62.00592	(18011820)	434200.46	3711394.93	61.38631	(20022703)
434157.69	3711400.42	56.31608	(20022703)	434137.46	3711408.51	53.89135	(18012708)
434117.24	3711416.61	51.64723	(19122020)	434097.01	3711424.70	50.01216	(18011820)
434076.78	3711432.79	48.39771	(21011706)	434062.62	3711422.24	47.80852	(18012708)
434068.69	3711403.60	49.08543	(19021508)	434074.75	3711384.96	50.95526	(19012108)
434086.31	3711345.80	52.57393	(18012918)	434091.80	3711325.29	60.15861	(20020723)
434097.30	3711304.77	64.93243	(20020723)	434102.79	3711284.25	63.98976	(20020723)
434108.28	3711263.74	58.02959	(20020723)	434127.64	3711225.45	64.56553	(21110503)
434141.51	3711207.68	67.18582	(19121506)	434155.38	3711189.90	73.54083	(19121506)
434148.44	3711166.35	71.25722	(20112424)	434127.64	3711160.57	68.60232	(20112424)
434096.43	3711138.03	62.75013	(20112424)	434086.02	3711121.27	60.80509	(20101104)
434074.75	3711082.40	62.39616	(18121805)	434073.89	3711060.30	62.14511	(18121805)
434073.02	3711038.19	58.67294	(21090405)	434079.66	3710999.90	62.10087	(21090405)
434087.18	3710983.71	58.87356	(21090405)	434079.52	3710949.76	53.04832	(19120805)
434064.35	3710931.99	52.54498	(19120805)	434049.18	3710914.21	51.91243	(19120805)

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	23.36816 AT (434801.28, 3711356.57, 81.59, 119.72, 0.00)	DC	
	2ND HIGHEST VALUE IS	20.90640 AT (434811.39, 3711339.73, 81.55, 119.67, 0.00)	DC	
	3RD HIGHEST VALUE IS	18.76134 AT (434821.49, 3711322.88, 81.48, 119.67, 0.00)	DC	
	4TH HIGHEST VALUE IS	18.06722 AT (434820.05, 3711371.97, 82.96, 119.72, 0.00)	DC	
	5TH HIGHEST VALUE IS	16.63148 AT (434831.60, 3711306.04, 81.81, 119.67, 0.00)	DC	
	6TH HIGHEST VALUE IS	14.66002 AT (434838.82, 3711387.37, 83.86, 119.72, 0.00)	DC	
	7TH HIGHEST VALUE IS	13.79430 AT (434846.04, 3711292.57, 83.10, 115.45, 0.00)	DC	
	8TH HIGHEST VALUE IS	13.53350 AT (434852.31, 3711364.05, 83.13, 119.72, 0.00)	DC	
	9TH HIGHEST VALUE IS	13.36281 AT (434852.31, 3711314.05, 82.93, 119.67, 0.00)	DC	
	10TH HIGHEST VALUE IS	12.32771 AT (434741.14, 3711168.41, 104.95, 104.95, 0.00)	DC	

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

3711730.87	36.44145 (18010108)			
433793.00	3711733.04	36.10489 (20120408)		433770.46
3711735.20	35.60973 (20120408)			
433734.05	3711751.24	34.37439 (20120408)		433735.79
3711782.01	33.43495 (18010108)			
433751.39	3711798.92	34.02093 (21012308)		433767.00
3711815.83	35.23157 (21012308)			
433785.63	3711854.84	36.67069 (20050504)		433788.67
3711876.95	36.65969 (20050504)			
433791.70	3711899.05	35.48523 (20050504)		433789.28
3711944.69	34.37491 (20030803)			
433783.83	3711968.22	36.81870 (20030803)		433778.38
3711991.75	38.47615 (20030803)			
433772.94	3712015.29	39.20621 (20030803)		433767.49
3712038.82	39.17429 (20030803)			
433762.04	3712062.35	38.52854 (20030803)		433735.78
3712075.48	38.07689 (20030803)			
433714.98	3712065.07	37.75713 (20030803)		433694.17
3712054.67	36.23028 (20030803)			
433673.37	3712044.26	33.85222 (21101622)		433652.56
3712033.86	33.61163 (21101622)			
433631.75	3712023.46	33.74116 (20050502)		433610.95
3712013.05	34.09578 (20050502)			
433588.98	3712023.46	33.27119 (20050502)		433587.83
3712044.26	32.48457 (20050502)			
433606.98	3712073.00	31.84752 (21101622)		433627.29
3712080.92	32.35188 (21101622)			
433647.60	3712088.85	33.42707 (20030803)		433667.92
3712096.78	35.14310 (20030803)			
433688.23	3712104.71	36.45855 (20030803)		433708.54
3712112.63	36.97907 (20091403)			
433729.71	3712143.10	35.32518 (20091403)		433730.58
3712165.64	35.74711 (21031805)			
433731.45	3712188.18	35.65710 (21031805)		433746.18
3712224.59	35.72789 (21090701)			
433760.06	3712238.46	35.58955 (21090701)		433773.93
3712252.33	34.58634 (21090701)			
433810.34	3712268.37	32.48153 (19120804)		433832.88
3712270.54	34.83625 (19120804)			
433855.42	3712272.70	36.58429 (19120804)		433876.80
3712293.37	37.00876 (19120804)			
433875.65	3712311.86	36.27963 (19120804)		433888.17
3712349.61	33.27767 (19120804)			
433901.86	3712368.86	33.75702 (20092402)		433915.54
3712388.10	34.32317 (21111806)			

```
   ********   WARNING MESSAGES   ********
ME W186     297       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     297       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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                                                  *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
             **

                                                        DATE
                                                NETWORK
GROUP ID                              AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     266.53016  ON 21101617: AT (  434801.28,
3711356.57,    81.59,   119.72,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:24:19

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of          471 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of           92 Calm Hours Identified

 A Total of          379 Missing Hours Identified (  0.86 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***
```

```
 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         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) =   170.00 ;  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 =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Salinity MGMT AERMOD.err

 **File for Summary of Results:   Salinity MGMT AERMOD.sum

 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:24:19

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  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
```

```
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:24:19

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * 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   102 Source(s),
        for Total of    1 Urban Area(s):
   Urban Population =   3010232.0 ;  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 Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    102 Source(s);       1 Source Group(s); and    1102
Receptor(s)

                 with:      0 POINT(s), including
                            0 POINTCAP(s) and      0 POINTHOR(s)
                  and:    102 VOLUME source(s)
                  and:      0 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)
```

```
 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
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
 17 01 01   1 01   -3.1  0.080 -9.000 -9.000 -999.   54.     14.7  0.14   0.72
1.00    0.86   69.   10.0  280.0    9.0
 17 01 01   1 02   -3.2  0.082 -9.000 -9.000 -999.   56.     14.8  0.14   0.72
1.00    0.90   61.   10.0  279.7    9.0
 17 01 01   1 03   -6.9  0.115 -9.000 -9.000 -999.   94.     19.8  0.14   0.72
1.00    1.34   69.   10.0  280.4    9.0
 17 01 01   1 04   -2.7  0.077 -9.000 -9.000 -999.   51.     14.7  0.14   0.72
1.00    0.80   67.   10.0  279.9    9.0
 17 01 01   1 05   -2.7  0.075 -9.000 -9.000 -999.   49.     13.8  0.10   0.72
1.00    0.86  113.   10.0  279.8    9.0
 17 01 01   1 06   -5.2  0.099 -9.000 -9.000 -999.   75.     16.5  0.10   0.72
1.00    1.26   92.   10.0  279.9    9.0
 17 01 01   1 07   -5.0  0.099 -9.000 -9.000 -999.   74.     17.0  0.14   0.72
1.00    1.14   86.   10.0  279.8    9.0
 17 01 01   1 08   -2.7  0.079 -9.000 -9.000 -999.   53.     16.0  0.10   0.72
0.53    1.00   98.   10.0  280.2    9.0
 17 01 01   1 09   28.1  0.133  0.457  0.005  120.  116.     -7.3  0.10   0.72
0.31    1.12  106.   10.0  283.2    9.0
 17 01 01   1 10   68.3  0.177  1.044  0.005  592.  178.     -7.2  0.11   0.72
0.24    1.45  159.   10.0  285.0    9.0
 17 01 01   1 11   78.5  0.266  1.278  0.005  943.  330.    -21.3  0.17   0.72
0.21    2.23  183.   10.0  285.5    9.0
 17 01 01   1 12   89.1  0.233  1.396  0.005 1082.  271.    -12.6  0.17   0.72
0.20    1.83  200.   10.0  286.2    9.0
 17 01 01   1 13   88.1  0.262  1.426  0.005 1168.  323.    -18.2  0.10   0.72
0.20    2.51  225.   10.0  286.6    9.0
 17 01 01   1 14   75.3  0.373  1.380  0.005 1237.  546.    -60.8  0.17   0.72
0.21    3.44  205.   10.0  286.5    9.0
 17 01 01   1 15   60.7  0.290  1.302  0.005 1290.  379.    -35.8  0.17   0.72
0.25    2.57  199.   10.0  286.4    9.0
 17 01 01   1 16   20.1  0.281  0.904  0.005 1304.  358.    -98.3  0.17   0.72
0.33    2.68  195.   10.0  286.5    9.0
 17 01 01   1 17  -18.1  0.218 -9.000 -9.000 -999.  246.     52.3  0.17   0.72
0.61    2.33  190.   10.0  285.5    9.0
 17 01 01   1 18   -5.6  0.104 -9.000 -9.000 -999.   88.     17.5  0.11   0.72
1.00    1.29  162.   10.0  284.2    9.0
 17 01 01   1 19   -5.1  0.098 -9.000 -9.000 -999.   74.     16.5  0.10   0.72
1.00    1.25  117.   10.0  283.5    9.0
 17 01 01   1 20   -7.0  0.115 -9.000 -9.000 -999.   93.     19.2  0.10   0.72
1.00    1.46  104.   10.0  283.4    9.0
 17 01 01   1 21   -6.8  0.113 -9.000 -9.000 -999.   91.     19.0  0.10   0.72
1.00    1.44  120.   10.0  284.0    9.0
 17 01 01   1 22   -5.6  0.102 -9.000 -9.000 -999.   79.     16.9  0.09   0.72
1.00    1.34  127.   10.0  284.3    9.0
 17 01 01   1 23   -4.4  0.091 -9.000 -9.000 -999.   66.     15.2  0.09   0.72
```

```
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1
1 1 1 1 1 1 1  1 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  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                        ***        11:24:19

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file:   ..\msvj_sfc_pfl\MSVJ_trimmed.sfc
                Met Version:  22112
   Profile file:   ..\msvj_sfc_pfl\MSVJ_trimmed.pfl

   Surface format: FREE

   Profile format: FREE

   Surface station no.:    93184                 Upper air station no.:     3190
                  Name: UNKNOWN                                 Name: UNKNOWN

                  Year:   2017                                  Year:   2017
```

```
  119.67,    0.00)  DC
        10TH HIGHEST VALUE IS      12.32771 AT (  434741.14,  3711168.41,   104.95,
  104.95,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                 PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
             **

                                              DATE
                                     NETWORK
GROUP ID                           AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS     266.53016  ON 21101617: AT (  434801.28,
3711356.57,    81.59,   119.72,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                 PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------
```

```
1.00    1.19  128.   10.0  284.0    9.0
 17 01 01   1 24   -7.2  0.116 -9.000 -9.000 -999.   95.     19.3  0.09   0.72
1.00    1.52  129.   10.0  283.9    9.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 17 01 01 01    9.0 0 -999.  -99.00   280.0   99.0  -99.00  -99.00
 17 01 01 01   10.0 1   69.    0.86  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 23132  ***   *** C:\Users\apoll\OneDrive -
Dudek\Desktop\HARP2\HARP\Salinity MGMT\Sal ***        07/30/24
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:24:19

                                 PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                      *** THE SUMMARY OF MAXIMUM PERIOD ( 43824
HRS) RESULTS ***


                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                         NETWORK
GROUP ID                           AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS      23.36816 AT (  434801.28,  3711356.57,    81.59,
  119.72,    0.00)  DC
          2ND HIGHEST VALUE IS      20.90640 AT (  434811.39,  3711339.73,    81.55,
  119.67,    0.00)  DC
          3RD HIGHEST VALUE IS      18.76134 AT (  434821.49,  3711322.88,    81.48,
  119.67,    0.00)  DC
          4TH HIGHEST VALUE IS      18.06722 AT (  434820.05,  3711371.97,    82.96,
  119.72,    0.00)  DC
          5TH HIGHEST VALUE IS      16.63148 AT (  434831.60,  3711306.04,    81.81,
  119.67,    0.00)  DC
          6TH HIGHEST VALUE IS      14.66002 AT (  434838.82,  3711387.37,    83.86,
  119.72,    0.00)  DC
          7TH HIGHEST VALUE IS      13.79430 AT (  434846.04,  3711292.57,    83.10,
  115.45,    0.00)  DC
          8TH HIGHEST VALUE IS      13.53350 AT (  434852.31,  3711364.05,    83.13,
  119.72,    0.00)  DC
          9TH HIGHEST VALUE IS      13.36281 AT (  434852.31,  3711314.05,    82.93,
```

```
A Total of      0 Fatal Error Message(s)
A Total of      2 Warning Message(s)
A Total of    471 Informational Message(s)

A Total of  43824 Hours Were Processed

A Total of     92 Calm Hours Identified

A Total of    379 Missing Hours Identified (  0.86 Percent)


 ********  FATAL  ERROR MESSAGES  ********
                ***  NONE  ***


 ********  WARNING MESSAGES   ********
ME W186    297     MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
   0.50
ME W187    297     MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*HARP - HRACalc v22118 7/30/2024 11:54:52 AM - Cancer Risk - Input File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRAHRAInput.hra

REC	GRP	NETID	X	Y	RISK_SUM	SCENARIO	INH_RISK	SOIL_RISK	DERMAL_R	MMILK_RIS	WATER_RIS	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RIS	PIG_RISK	CHICKEN_I	EGG_RISK
1	ALL		433702.3	3710264	6.69E-08	0.833YrCar	6.69E-08	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	0.00E+00
2	ALL		433752.3	3710264	6.53E-08	0.833YrCar	6.53E-08	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	0.00E+00
3	ALL		433802.3	3710264	6.20E-08	0.833YrCar	6.20E-08	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	0.00E+00
4	ALL		433852.3	3710264	5.82E-08	0.833YrCar	5.82E-08	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	0.00E+00
5	ALL		433702.3	3710314	7.26E-08	0.833YrCar	7.26E-08	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	0.00E+00
6	ALL		433752.3	3710314	7.12E-08	0.833YrCar	7.12E-08	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	0.00E+00
7	ALL		433802.3	3710314	6.51E-08	0.833YrCar	6.51E-08	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	0.00E+00
8	ALL		433852.3	3710314	6.28E-08	0.833YrCar	6.28E-08	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	0.00E+00
9	ALL		433752.3	3710364	7.79E-08	0.833YrCar	7.79E-08	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	0.00E+00
10	ALL		433802.3	3710364	6.91E-08	0.833YrCar	6.91E-08	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	0.00E+00
11	ALL		433852.3	3710364	6.65E-08	0.833YrCar	6.65E-08	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	0.00E+00
12	ALL		433902.3	3710364	6.42E-08	0.833YrCar	6.42E-08	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	0.00E+00
13	ALL		433752.3	3710414	8.53E-08	0.833YrCar	8.53E-08	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	0.00E+00
14	ALL		433802.3	3710414	7.59E-08	0.833YrCar	7.59E-08	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	0.00E+00
15	ALL		433852.3	3710414	7.29E-08	0.833YrCar	7.29E-08	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	0.00E+00
16	ALL		433902.3	3710414	7.04E-08	0.833YrCar	7.04E-08	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	0.00E+00
17	ALL		433752.3	3710464	9.30E-08	0.833YrCar	9.30E-08	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	0.00E+00
18	ALL		433802.3	3710464	8.54E-08	0.833YrCar	8.54E-08	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	0.00E+00
19	ALL		433852.3	3710464	8.03E-08	0.833YrCar	8.03E-08	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	0.00E+00
20	ALL		433902.3	3710464	7.80E-08	0.833YrCar	7.80E-08	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	0.00E+00
21	ALL		433752.3	3710514	1.01E-07	0.833YrCar	1.01E-07	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	0.00E+00
22	ALL		433802.3	3710514	9.67E-08	0.833YrCar	9.67E-08	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	0.00E+00
23	ALL		433852.3	3710514	8.86E-08	0.833YrCar	8.86E-08	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	0.00E+00
24	ALL		433902.3	3710514	8.61E-08	0.833YrCar	8.61E-08	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	0.00E+00
25	ALL		434452.3	3710514	8.80E-08	0.833YrCar	8.80E-08	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	0.00E+00
26	ALL		434502.3	3710514	9.50E-08	0.833YrCar	9.50E-08	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	0.00E+00
27	ALL		433752.3	3710564	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
28	ALL		433802.3	3710564	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
29	ALL		433852.3	3710564	9.76E-08	0.833YrCar	9.76E-08	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	0.00E+00
30	ALL		433902.3	3710564	9.60E-08	0.833YrCar	9.60E-08	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	0.00E+00
31	ALL		434452.3	3710564	9.47E-08	0.833YrCar	9.47E-08	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	0.00E+00
32	ALL		434502.3	3710564	9.30E-08	0.833YrCar	9.30E-08	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	0.00E+00
33	ALL		434552.3	3710564	9.83E-08	0.833YrCar	9.83E-08	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	0.00E+00
34	ALL		433802.3	3710614	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
35	ALL		433852.3	3710614	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
36	ALL		433902.3	3710614	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
37	ALL		434452.3	3710614	9.30E-08	0.833YrCar	9.30E-08	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	0.00E+00
38	ALL		434502.3	3710614	8.60E-08	0.833YrCar	8.60E-08	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	0.00E+00
39	ALL		434552.3	3710614	9.65E-08	0.833YrCar	9.65E-08	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	0.00E+00
40	ALL		434602.3	3710614	1.04E-07	0.833YrCar	1.04E-07	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	0.00E+00
41	ALL		434652.3	3710614	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
42	ALL		433802.3	3710664	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
43	ALL		433852.3	3710664	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
44	ALL		433902.3	3710664	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
45	ALL		434502.3	3710664	9.11E-08	0.833YrCar	9.11E-08	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	0.00E+00

46	ALL	434552.3	3710664	9.46E-08	0.833YrCar	9.46E-08	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	0.00E+00
47	ALL	434602.3	3710664	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
48	ALL	434652.3	3710664	1.21E-07	0.833YrCar	1.21E-07	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	0.00E+00
49	ALL	434702.3	3710664	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
50	ALL	433802.3	3710714	1.32E-07	0.833YrCar	1.32E-07	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	0.00E+00
51	ALL	433852.3	3710714	1.31E-07	0.833YrCar	1.31E-07	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	0.00E+00
52	ALL	433902.3	3710714	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
53	ALL	433952.3	3710714	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
54	ALL	434002.3	3710714	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
55	ALL	434502.3	3710714	1.05E-07	0.833YrCar	1.05E-07	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	0.00E+00
56	ALL	434552.3	3710714	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
57	ALL	434602.3	3710714	1.13E-07	0.833YrCar	1.13E-07	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	0.00E+00
58	ALL	434652.3	3710714	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
59	ALL	434702.3	3710714	1.38E-07	0.833YrCar	1.38E-07	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	0.00E+00
60	ALL	434752.3	3710714	1.75E-07	0.833YrCar	1.75E-07	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	0.00E+00
61	ALL	433802.3	3710764	1.36E-07	0.833YrCar	1.36E-07	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	0.00E+00
62	ALL	433852.3	3710764	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
63	ALL	433902.3	3710764	1.38E-07	0.833YrCar	1.38E-07	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	0.00E+00
64	ALL	433952.3	3710764	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
65	ALL	434552.3	3710764	1.21E-07	0.833YrCar	1.21E-07	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	0.00E+00
66	ALL	434602.3	3710764	1.19E-07	0.833YrCar	1.19E-07	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	0.00E+00
67	ALL	434652.3	3710764	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
68	ALL	434702.3	3710764	1.51E-07	0.833YrCar	1.51E-07	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	0.00E+00
69	ALL	434752.3	3710764	1.76E-07	0.833YrCar	1.76E-07	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	0.00E+00
70	ALL	434802.3	3710764	2.07E-07	0.833YrCar	2.07E-07	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	0.00E+00
71	ALL	433802.3	3710814	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
72	ALL	433852.3	3710814	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
73	ALL	433902.3	3710814	1.52E-07	0.833YrCar	1.52E-07	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	0.00E+00
74	ALL	433952.3	3710814	1.52E-07	0.833YrCar	1.52E-07	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	0.00E+00
75	ALL	434002.3	3710814	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
76	ALL	434552.3	3710814	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
77	ALL	434602.3	3710814	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
78	ALL	434652.3	3710814	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
79	ALL	434702.3	3710814	1.64E-07	0.833YrCar	1.64E-07	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	0.00E+00
80	ALL	434752.3	3710814	1.91E-07	0.833YrCar	1.91E-07	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	0.00E+00
81	ALL	434802.3	3710814	2.12E-07	0.833YrCar	2.12E-07	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	0.00E+00
82	ALL	434852.3	3710814	2.25E-07	0.833YrCar	2.25E-07	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	0.00E+00
83	ALL	433802.3	3710864	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
84	ALL	433852.3	3710864	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
85	ALL	433902.3	3710864	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
86	ALL	433952.3	3710864	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
87	ALL	434002.3	3710864	1.74E-07	0.833YrCar	1.74E-07	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	0.00E+00
88	ALL	434602.3	3710864	1.65E-07	0.833YrCar	1.65E-07	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	0.00E+00
89	ALL	434652.3	3710864	1.70E-07	0.833YrCar	1.70E-07	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	0.00E+00
90	ALL	434702.3	3710864	1.82E-07	0.833YrCar	1.82E-07	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	0.00E+00
91	ALL	434752.3	3710864	2.00E-07	0.833YrCar	2.00E-07	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	0.00E+00
92	ALL	434802.3	3710864	2.22E-07	0.833YrCar	2.22E-07	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	0.00E+00
93	ALL	434852.3	3710864	2.31E-07	0.833YrCar	2.31E-07	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	0.00E+00
94	ALL	434902.3	3710864	2.48E-07	0.833YrCar	2.48E-07	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	0.00E+00
95	ALL	433852.3	3710914	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
96	ALL	433902.3	3710914	1.67E-07	0.833YrCar	1.67E-07	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	0.00E+00
97	ALL	433952.3	3710914	1.73E-07	0.833YrCar	1.73E-07	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	0.00E+00
98	ALL	434002.3	3710914	1.86E-07	0.833YrCar	1.86E-07	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	0.00E+00
99	ALL	434652.3	3710914	2.11E-07	0.833YrCar	2.11E-07	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	0.00E+00
100	ALL	434702.3	3710914	2.25E-07	0.833YrCar	2.25E-07	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	0.00E+00
101	ALL	434752.3	3710914	2.34E-07	0.833YrCar	2.34E-07	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	0.00E+00
102	ALL	434802.3	3710914	2.45E-07	0.833YrCar	2.45E-07	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	0.00E+00
103	ALL	434852.3	3710914	2.49E-07	0.833YrCar	2.49E-07	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	0.00E+00
104	ALL	434902.3	3710914	2.51E-07	0.833YrCar	2.51E-07	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	0.00E+00
105	ALL	434952.3	3710914	2.53E-07	0.833YrCar	2.53E-07	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	0.00E+00
106	ALL	433852.3	3710964	1.51E-07	0.833YrCar	1.51E-07	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	0.00E+00
107	ALL	433902.3	3710964	1.65E-07	0.833YrCar	1.65E-07	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	0.00E+00
108	ALL	433952.3	3710964	1.72E-07	0.833YrCar	1.72E-07	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	0.00E+00
109	ALL	434002.3	3710964	1.86E-07	0.833YrCar	1.86E-07	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	0.00E+00
110	ALL	434052.3	3710964	2.03E-07	0.833YrCar	2.03E-07	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	0.00E+00
111	ALL	434652.3	3710964	2.73E-07	0.833YrCar	2.73E-07	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	0.00E+00
112	ALL	434702.3	3710964	2.85E-07	0.833YrCar	2.85E-07	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	0.00E+00
113	ALL	434752.3	3710964	2.90E-07	0.833YrCar	2.90E-07	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	0.00E+00
114	ALL	434802.3	3710964	2.85E-07	0.833YrCar	2.85E-07	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	0.00E+00
115	ALL	434852.3	3710964	2.73E-07	0.833YrCar	2.73E-07	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	0.00E+00
116	ALL	434902.3	3710964	2.57E-07	0.833YrCar	2.57E-07	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	0.00E+00
117	ALL	434952.3	3710964	2.54E-07	0.833YrCar	2.54E-07	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	0.00E+00
118	ALL	433802.3	3711014	1.33E-07	0.833YrCar	1.33E-07	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	0.00E+00
119	ALL	433852.3	3711014	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
120	ALL	433902.3	3711014	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
121	ALL	433952.3	3711014	1.66E-07	0.833YrCar	1.66E-07	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	0.00E+00
122	ALL	434002.3	3711014	1.81E-07	0.833YrCar	1.81E-07	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	0.00E+00
123	ALL	434052.3	3711014	2.01E-07	0.833YrCar	2.01E-07	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	0.00E+00
124	ALL	434702.3	3711014	3.72E-07	0.833YrCar	3.72E-07	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	0.00E+00
125	ALL	434752.3	3711014	3.62E-07	0.833YrCar	3.62E-07	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	0.00E+00
126	ALL	434802.3	3711014	3.37E-07	0.833YrCar	3.37E-07	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	0.00E+00
127	ALL	434852.3	3711014	3.02E-07	0.833YrCar	3.02E-07	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	0.00E+00
128	ALL	434902.3	3711014	2.74E-07	0.833YrCar	2.74E-07	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	0.00E+00
129	ALL	434952.3	3711014	2.39E-07	0.833YrCar	2.39E-07	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	0.00E+00
130	ALL	435002.3	3711014	2.36E-07	0.833YrCar	2.36E-07	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	0.00E+00
131	ALL	433802.3	3711064	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
132	ALL	433852.3	3711064	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
133	ALL	433902.3	3711064	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
134	ALL	433952.3	3711064	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
135	ALL	434002.3	3711064	1.77E-07	0.833YrCar	1.77E-07	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	0.00E+00
136	ALL	434052.3	3711064	1.98E-07	0.833YrCar	1.98E-07	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	0.00E+00
137	ALL	434752.3	3711064	4.53E-07	0.833YrCar	4.53E-07	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	0.00E+00
138	ALL	434802.3	3711064	4.02E-07	0.833YrCar	4.02E-07	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	0.00E+00
139	ALL	434852.3	3711064	3.41E-07	0.833YrCar	3.41E-07	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	0.00E+00

140	ALL	434902.3	3711064	2.84E-07	0.833YrCar	2.84E-07	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	0.00E+00
141	ALL	434952.3	3711064	2.51E-07	0.833YrCar	2.51E-07	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	0.00E+00
142	ALL	433752.3	3711114	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
143	ALL	433802.3	3711114	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
144	ALL	433852.3	3711114	1.31E-07	0.833YrCar	1.31E-07	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	0.00E+00
145	ALL	433902.3	3711114	1.38E-07	0.833YrCar	1.38E-07	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	0.00E+00
146	ALL	433952.3	3711114	1.53E-07	0.833YrCar	1.53E-07	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	0.00E+00
147	ALL	434002.3	3711114	1.72E-07	0.833YrCar	1.72E-07	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	0.00E+00
148	ALL	434052.3	3711114	1.94E-07	0.833YrCar	1.94E-07	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	0.00E+00
149	ALL	434752.3	3711114	5.72E-07	0.833YrCar	5.72E-07	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	0.00E+00
150	ALL	434802.3	3711114	4.80E-07	0.833YrCar	4.80E-07	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	0.00E+00
151	ALL	434852.3	3711114	3.82E-07	0.833YrCar	3.82E-07	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	0.00E+00
152	ALL	433802.3	3711164	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
153	ALL	433852.3	3711164	1.24E-07	0.833YrCar	1.24E-07	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	0.00E+00
154	ALL	433902.3	3711164	1.35E-07	0.833YrCar	1.35E-07	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	0.00E+00
155	ALL	433952.3	3711164	1.49E-07	0.833YrCar	1.49E-07	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	0.00E+00
156	ALL	434002.3	3711164	1.67E-07	0.833YrCar	1.67E-07	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	0.00E+00
157	ALL	434052.3	3711164	1.90E-07	0.833YrCar	1.90E-07	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	0.00E+00
158	ALL	434102.3	3711164	2.18E-07	0.833YrCar	2.18E-07	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	0.00E+00
159	ALL	434752.3	3711164	7.45E-07	0.833YrCar	7.45E-07	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	0.00E+00
160	ALL	435052.3	3711164	1.58E-07	0.833YrCar	1.58E-07	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	0.00E+00
161	ALL	435102.3	3711164	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
162	ALL	433802.3	3711214	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
163	ALL	433852.3	3711214	1.21E-07	0.833YrCar	1.21E-07	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	0.00E+00
164	ALL	433902.3	3711214	1.31E-07	0.833YrCar	1.31E-07	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	0.00E+00
165	ALL	433952.3	3711214	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
166	ALL	434002.3	3711214	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
167	ALL	434052.3	3711214	1.84E-07	0.833YrCar	1.84E-07	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	0.00E+00
168	ALL	434102.3	3711214	2.12E-07	0.833YrCar	2.12E-07	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	0.00E+00
169	ALL	434952.3	3711214	2.67E-07	0.833YrCar	2.67E-07	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	0.00E+00
170	ALL	435002.3	3711214	1.93E-07	0.833YrCar	1.93E-07	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	0.00E+00
171	ALL	435052.3	3711214	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
172	ALL	435102.3	3711214	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
173	ALL	435152.3	3711214	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
174	ALL	433852.3	3711264	1.17E-07	0.833YrCar	1.17E-07	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	0.00E+00
175	ALL	433902.3	3711264	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
176	ALL	433952.3	3711264	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
177	ALL	434002.3	3711264	1.58E-07	0.833YrCar	1.58E-07	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	0.00E+00
178	ALL	434052.3	3711264	1.78E-07	0.833YrCar	1.78E-07	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	0.00E+00
179	ALL	434102.3	3711264	2.05E-07	0.833YrCar	2.05E-07	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	0.00E+00
180	ALL	434902.3	3711264	4.46E-07	0.833YrCar	4.46E-07	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	0.00E+00
181	ALL	434952.3	3711264	2.80E-07	0.833YrCar	2.80E-07	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	0.00E+00
182	ALL	435002.3	3711264	2.08E-07	0.833YrCar	2.08E-07	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	0.00E+00
183	ALL	435052.3	3711264	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
184	ALL	435102.3	3711264	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
185	ALL	435152.3	3711264	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
186	ALL	435202.3	3711264	1.14E-07	0.833YrCar	1.14E-07	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	0.00E+00

187	ALL	433902.3	3711314	1.24E-07	0.833YrCar	1.24E-07	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	0.00E+00
188	ALL	433952.3	3711314	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
189	ALL	434002.3	3711314	1.53E-07	0.833YrCar	1.53E-07	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	0.00E+00
190	ALL	434052.3	3711314	1.72E-07	0.833YrCar	1.72E-07	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	0.00E+00
191	ALL	434852.3	3711314	8.75E-07	0.833YrCar	8.75E-07	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	0.00E+00
192	ALL	434902.3	3711314	5.04E-07	0.833YrCar	5.04E-07	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	0.00E+00
193	ALL	434952.3	3711314	3.45E-07	0.833YrCar	3.45E-07	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	0.00E+00
194	ALL	435002.3	3711314	2.41E-07	0.833YrCar	2.41E-07	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	0.00E+00
195	ALL	435052.3	3711314	1.80E-07	0.833YrCar	1.80E-07	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	0.00E+00
196	ALL	435102.3	3711314	1.49E-07	0.833YrCar	1.49E-07	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	0.00E+00
197	ALL	435152.3	3711314	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
198	ALL	435202.3	3711314	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
199	ALL	435252.3	3711314	9.94E-08	0.833YrCar	9.94E-08	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	0.00E+00
200	ALL	434002.3	3711364	1.48E-07	0.833YrCar	1.48E-07	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	0.00E+00
201	ALL	434052.3	3711364	1.66E-07	0.833YrCar	1.66E-07	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	0.00E+00
202	ALL	434852.3	3711364	8.86E-07	0.833YrCar	8.86E-07	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	0.00E+00
203	ALL	434902.3	3711364	5.86E-07	0.833YrCar	5.86E-07	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	0.00E+00
204	ALL	434952.3	3711364	3.93E-07	0.833YrCar	3.93E-07	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	0.00E+00
205	ALL	435002.3	3711364	2.96E-07	0.833YrCar	2.96E-07	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	0.00E+00
206	ALL	435052.3	3711364	2.25E-07	0.833YrCar	2.25E-07	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	0.00E+00
207	ALL	435102.3	3711364	1.66E-07	0.833YrCar	1.66E-07	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	0.00E+00
208	ALL	435152.3	3711364	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00
209	ALL	435202.3	3711364	1.10E-07	0.833YrCar	1.10E-07	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	0.00E+00
210	ALL	435252.3	3711364	9.47E-08	0.833YrCar	9.47E-08	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	0.00E+00
211	ALL	435302.3	3711364	8.89E-08	0.833YrCar	8.89E-08	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	0.00E+00
212	ALL	434002.3	3711414	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
213	ALL	434052.3	3711414	1.61E-07	0.833YrCar	1.61E-07	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	0.00E+00
214	ALL	434152.3	3711414	2.09E-07	0.833YrCar	2.09E-07	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	0.00E+00
215	ALL	434202.3	3711414	2.42E-07	0.833YrCar	2.42E-07	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	0.00E+00
216	ALL	434902.3	3711414	5.66E-07	0.833YrCar	5.66E-07	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	0.00E+00
217	ALL	434952.3	3711414	4.20E-07	0.833YrCar	4.20E-07	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	0.00E+00
218	ALL	435002.3	3711414	3.16E-07	0.833YrCar	3.16E-07	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	0.00E+00
219	ALL	435052.3	3711414	2.41E-07	0.833YrCar	2.41E-07	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	0.00E+00
220	ALL	435102.3	3711414	1.71E-07	0.833YrCar	1.71E-07	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	0.00E+00
221	ALL	435152.3	3711414	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
222	ALL	435202.3	3711414	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
223	ALL	435252.3	3711414	9.64E-08	0.833YrCar	9.64E-08	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	0.00E+00
224	ALL	435302.3	3711414	8.51E-08	0.833YrCar	8.51E-08	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	0.00E+00
225	ALL	435352.3	3711414	8.16E-08	0.833YrCar	8.16E-08	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	0.00E+00
226	ALL	434052.3	3711464	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
227	ALL	434102.3	3711464	1.73E-07	0.833YrCar	1.73E-07	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	0.00E+00
228	ALL	434852.3	3711464	4.65E-07	0.833YrCar	4.65E-07	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	0.00E+00
229	ALL	434902.3	3711464	4.04E-07	0.833YrCar	4.04E-07	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	0.00E+00
230	ALL	434952.3	3711464	3.76E-07	0.833YrCar	3.76E-07	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	0.00E+00
231	ALL	435002.3	3711464	3.09E-07	0.833YrCar	3.09E-07	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	0.00E+00
232	ALL	435052.3	3711464	2.49E-07	0.833YrCar	2.49E-07	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	0.00E+00
233	ALL	435102.3	3711464	1.86E-07	0.833YrCar	1.86E-07	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	0.00E+00

234	ALL	435152.3	3711464	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
235	ALL	435202.3	3711464	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
236	ALL	435252.3	3711464	1.05E-07	0.833YrCar	1.05E-07	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	0.00E+00
237	ALL	435302.3	3711464	8.79E-08	0.833YrCar	8.79E-08	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	0.00E+00
238	ALL	435352.3	3711464	8.25E-08	0.833YrCar	8.25E-08	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	0.00E+00
239	ALL	435402.3	3711464	7.99E-08	0.833YrCar	7.99E-08	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	0.00E+00
240	ALL	433952.3	3711514	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
241	ALL	434002.3	3711514	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
242	ALL	434052.3	3711514	1.48E-07	0.833YrCar	1.48E-07	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	0.00E+00
243	ALL	434852.3	3711514	3.89E-07	0.833YrCar	3.89E-07	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	0.00E+00
244	ALL	434902.3	3711514	3.02E-07	0.833YrCar	3.02E-07	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	0.00E+00
245	ALL	434952.3	3711514	2.56E-07	0.833YrCar	2.56E-07	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	0.00E+00
246	ALL	435002.3	3711514	2.39E-07	0.833YrCar	2.39E-07	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	0.00E+00
247	ALL	435052.3	3711514	2.38E-07	0.833YrCar	2.38E-07	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	0.00E+00
248	ALL	435102.3	3711514	2.00E-07	0.833YrCar	2.00E-07	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	0.00E+00
249	ALL	435152.3	3711514	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
250	ALL	435202.3	3711514	1.29E-07	0.833YrCar	1.29E-07	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	0.00E+00
251	ALL	435252.3	3711514	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
252	ALL	435302.3	3711514	9.71E-08	0.833YrCar	9.71E-08	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	0.00E+00
253	ALL	435352.3	3711514	8.66E-08	0.833YrCar	8.66E-08	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	0.00E+00
254	ALL	433902.3	3711564	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
255	ALL	433952.3	3711564	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
256	ALL	434002.3	3711564	1.33E-07	0.833YrCar	1.33E-07	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	0.00E+00
257	ALL	434052.3	3711564	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
258	ALL	434852.3	3711564	3.33E-07	0.833YrCar	3.33E-07	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	0.00E+00
259	ALL	434902.3	3711564	2.67E-07	0.833YrCar	2.67E-07	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	0.00E+00
260	ALL	434952.3	3711564	2.23E-07	0.833YrCar	2.23E-07	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	0.00E+00
261	ALL	435002.3	3711564	1.92E-07	0.833YrCar	1.92E-07	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	0.00E+00
262	ALL	435052.3	3711564	1.78E-07	0.833YrCar	1.78E-07	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	0.00E+00
263	ALL	435102.3	3711564	1.79E-07	0.833YrCar	1.79E-07	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	0.00E+00
264	ALL	435152.3	3711564	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
265	ALL	435202.3	3711564	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
266	ALL	435252.3	3711564	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
267	ALL	435302.3	3711564	9.42E-08	0.833YrCar	9.42E-08	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	0.00E+00
268	ALL	435352.3	3711564	8.02E-08	0.833YrCar	8.02E-08	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	0.00E+00
269	ALL	433902.3	3711614	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
270	ALL	433952.3	3711614	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
271	ALL	434002.3	3711614	1.32E-07	0.833YrCar	1.32E-07	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	0.00E+00
272	ALL	434052.3	3711614	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
273	ALL	434102.3	3711614	1.53E-07	0.833YrCar	1.53E-07	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	0.00E+00
274	ALL	434852.3	3711614	2.94E-07	0.833YrCar	2.94E-07	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	0.00E+00
275	ALL	434902.3	3711614	2.35E-07	0.833YrCar	2.35E-07	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	0.00E+00
276	ALL	434952.3	3711614	1.96E-07	0.833YrCar	1.96E-07	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	0.00E+00
277	ALL	435002.3	3711614	1.73E-07	0.833YrCar	1.73E-07	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	0.00E+00
278	ALL	435052.3	3711614	1.55E-07	0.833YrCar	1.55E-07	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	0.00E+00
279	ALL	435102.3	3711614	1.40E-07	0.833YrCar	1.40E-07	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	0.00E+00
280	ALL	435152.3	3711614	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00

281	ALL	435202.3	3711614	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
282	ALL	435252.3	3711614	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
283	ALL	435302.3	3711614	8.02E-08	0.833YrCar	8.02E-08	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	0.00E+00
284	ALL	435352.3	3711614	6.64E-08	0.833YrCar	6.64E-08	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	0.00E+00
285	ALL	435402.3	3711614	6.66E-08	0.833YrCar	6.66E-08	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	0.00E+00
286	ALL	433902.3	3711664	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
287	ALL	433952.3	3711664	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
288	ALL	434002.3	3711664	1.29E-07	0.833YrCar	1.29E-07	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	0.00E+00
289	ALL	434052.3	3711664	1.35E-07	0.833YrCar	1.35E-07	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	0.00E+00
290	ALL	434102.3	3711664	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
291	ALL	434302.3	3711664	2.08E-07	0.833YrCar	2.08E-07	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	0.00E+00
292	ALL	434352.3	3711664	2.32E-07	0.833YrCar	2.32E-07	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	0.00E+00
293	ALL	434852.3	3711664	2.63E-07	0.833YrCar	2.63E-07	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	0.00E+00
294	ALL	434902.3	3711664	2.09E-07	0.833YrCar	2.09E-07	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	0.00E+00
295	ALL	434952.3	3711664	1.75E-07	0.833YrCar	1.75E-07	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	0.00E+00
296	ALL	435002.3	3711664	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
297	ALL	435052.3	3711664	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
298	ALL	435102.3	3711664	1.31E-07	0.833YrCar	1.31E-07	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	0.00E+00
299	ALL	435152.3	3711664	1.19E-07	0.833YrCar	1.19E-07	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	0.00E+00
300	ALL	435202.3	3711664	1.13E-07	0.833YrCar	1.13E-07	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	0.00E+00
301	ALL	435252.3	3711664	9.98E-08	0.833YrCar	9.98E-08	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	0.00E+00
302	ALL	435302.3	3711664	7.56E-08	0.833YrCar	7.56E-08	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	0.00E+00
303	ALL	435352.3	3711664	6.49E-08	0.833YrCar	6.49E-08	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	0.00E+00
304	ALL	435402.3	3711664	5.76E-08	0.833YrCar	5.76E-08	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	0.00E+00
305	ALL	435452.3	3711664	5.74E-08	0.833YrCar	5.74E-08	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	0.00E+00
306	ALL	433852.3	3711714	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
307	ALL	433902.3	3711714	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
308	ALL	433952.3	3711714	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
309	ALL	434002.3	3711714	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
310	ALL	434052.3	3711714	1.33E-07	0.833YrCar	1.33E-07	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	0.00E+00
311	ALL	434102.3	3711714	1.35E-07	0.833YrCar	1.35E-07	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	0.00E+00
312	ALL	434152.3	3711714	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
313	ALL	434202.3	3711714	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
314	ALL	434252.3	3711714	1.73E-07	0.833YrCar	1.73E-07	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	0.00E+00
315	ALL	434302.3	3711714	1.89E-07	0.833YrCar	1.89E-07	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	0.00E+00
316	ALL	434352.3	3711714	2.07E-07	0.833YrCar	2.07E-07	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	0.00E+00
317	ALL	434902.3	3711714	1.93E-07	0.833YrCar	1.93E-07	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	0.00E+00
318	ALL	434952.3	3711714	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
319	ALL	435002.3	3711714	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
320	ALL	435052.3	3711714	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
321	ALL	435102.3	3711714	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
322	ALL	435152.3	3711714	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
323	ALL	435202.3	3711714	9.99E-08	0.833YrCar	9.99E-08	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	0.00E+00
324	ALL	435252.3	3711714	9.17E-08	0.833YrCar	9.17E-08	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	0.00E+00
325	ALL	435302.3	3711714	7.57E-08	0.833YrCar	7.57E-08	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	0.00E+00
326	ALL	435352.3	3711714	6.33E-08	0.833YrCar	6.33E-08	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	0.00E+00
327	ALL	435402.3	3711714	5.48E-08	0.833YrCar	5.48E-08	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	0.00E+00

328	ALL	435452.3	3711714	5.26E-08	0.833YrCar	5.26E-08	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	0.00E+00
329	ALL	433752.3	3711764	8.67E-08	0.833YrCar	8.67E-08	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	0.00E+00
330	ALL	433802.3	3711764	9.21E-08	0.833YrCar	9.21E-08	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	0.00E+00
331	ALL	433852.3	3711764	9.81E-08	0.833YrCar	9.81E-08	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	0.00E+00
332	ALL	433902.3	3711764	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
333	ALL	433952.3	3711764	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
334	ALL	434002.3	3711764	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
335	ALL	434052.3	3711764	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
336	ALL	434102.3	3711764	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
337	ALL	434152.3	3711764	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
338	ALL	434302.3	3711764	1.71E-07	0.833YrCar	1.71E-07	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	0.00E+00
339	ALL	434352.3	3711764	1.86E-07	0.833YrCar	1.86E-07	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	0.00E+00
340	ALL	434902.3	3711764	1.80E-07	0.833YrCar	1.80E-07	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	0.00E+00
341	ALL	434952.3	3711764	1.51E-07	0.833YrCar	1.51E-07	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	0.00E+00
342	ALL	435002.3	3711764	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
343	ALL	435052.3	3711764	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
344	ALL	435102.3	3711764	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
345	ALL	435152.3	3711764	9.95E-08	0.833YrCar	9.95E-08	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	0.00E+00
346	ALL	435202.3	3711764	9.05E-08	0.833YrCar	9.05E-08	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	0.00E+00
347	ALL	435252.3	3711764	8.22E-08	0.833YrCar	8.22E-08	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	0.00E+00
348	ALL	435302.3	3711764	7.55E-08	0.833YrCar	7.55E-08	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	0.00E+00
349	ALL	435352.3	3711764	6.41E-08	0.833YrCar	6.41E-08	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	0.00E+00
350	ALL	435402.3	3711764	5.48E-08	0.833YrCar	5.48E-08	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	0.00E+00
351	ALL	435452.3	3711764	5.04E-08	0.833YrCar	5.04E-08	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	0.00E+00
352	ALL	435502.3	3711764	4.81E-08	0.833YrCar	4.81E-08	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	0.00E+00
353	ALL	433802.3	3711814	9.04E-08	0.833YrCar	9.04E-08	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	0.00E+00
354	ALL	433852.3	3711814	9.37E-08	0.833YrCar	9.37E-08	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	0.00E+00
355	ALL	433902.3	3711814	9.70E-08	0.833YrCar	9.70E-08	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	0.00E+00
356	ALL	433952.3	3711814	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
357	ALL	434002.3	3711814	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
358	ALL	434052.3	3711814	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
359	ALL	434102.3	3711814	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
360	ALL	434152.3	3711814	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
361	ALL	434352.3	3711814	1.67E-07	0.833YrCar	1.67E-07	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	0.00E+00
362	ALL	434952.3	3711814	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
363	ALL	435002.3	3711814	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
364	ALL	435052.3	3711814	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
365	ALL	435102.3	3711814	9.60E-08	0.833YrCar	9.60E-08	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	0.00E+00
366	ALL	435152.3	3711814	8.93E-08	0.833YrCar	8.93E-08	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	0.00E+00
367	ALL	435202.3	3711814	8.47E-08	0.833YrCar	8.47E-08	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	0.00E+00
368	ALL	435252.3	3711814	7.79E-08	0.833YrCar	7.79E-08	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	0.00E+00
369	ALL	435302.3	3711814	7.41E-08	0.833YrCar	7.41E-08	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	0.00E+00
370	ALL	435352.3	3711814	6.56E-08	0.833YrCar	6.56E-08	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	0.00E+00
371	ALL	435402.3	3711814	5.65E-08	0.833YrCar	5.65E-08	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	0.00E+00
372	ALL	435452.3	3711814	5.03E-08	0.833YrCar	5.03E-08	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	0.00E+00
373	ALL	435502.3	3711814	4.69E-08	0.833YrCar	4.69E-08	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	0.00E+00
374	ALL	435552.3	3711814	4.48E-08	0.833YrCar	4.48E-08	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	0.00E+00

375	ALL	433802.3	3711864	8.81E-08	0.833YrCar	8.81E-08	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	0.00E+00
376	ALL	433852.3	3711864	9.07E-08	0.833YrCar	9.07E-08	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	0.00E+00
377	ALL	433902.3	3711864	9.26E-08	0.833YrCar	9.26E-08	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	0.00E+00
378	ALL	433952.3	3711864	9.76E-08	0.833YrCar	9.76E-08	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	0.00E+00
379	ALL	434002.3	3711864	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
380	ALL	434052.3	3711864	1.05E-07	0.833YrCar	1.05E-07	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	0.00E+00
381	ALL	434102.3	3711864	1.10E-07	0.833YrCar	1.10E-07	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	0.00E+00
382	ALL	434152.3	3711864	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
383	ALL	434902.3	3711864	1.82E-07	0.833YrCar	1.82E-07	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	0.00E+00
384	ALL	434952.3	3711864	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
385	ALL	435002.3	3711864	1.17E-07	0.833YrCar	1.17E-07	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	0.00E+00
386	ALL	435052.3	3711864	9.83E-08	0.833YrCar	9.83E-08	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	0.00E+00
387	ALL	435102.3	3711864	8.76E-08	0.833YrCar	8.76E-08	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	0.00E+00
388	ALL	435152.3	3711864	8.07E-08	0.833YrCar	8.07E-08	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	0.00E+00
389	ALL	435202.3	3711864	7.81E-08	0.833YrCar	7.81E-08	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	0.00E+00
390	ALL	435252.3	3711864	7.49E-08	0.833YrCar	7.49E-08	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	0.00E+00
391	ALL	435302.3	3711864	6.83E-08	0.833YrCar	6.83E-08	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	0.00E+00
392	ALL	435352.3	3711864	6.17E-08	0.833YrCar	6.17E-08	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	0.00E+00
393	ALL	435402.3	3711864	5.56E-08	0.833YrCar	5.56E-08	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	0.00E+00
394	ALL	435452.3	3711864	5.04E-08	0.833YrCar	5.04E-08	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	0.00E+00
395	ALL	435502.3	3711864	4.71E-08	0.833YrCar	4.71E-08	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	0.00E+00
396	ALL	433802.3	3711914	8.59E-08	0.833YrCar	8.59E-08	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	0.00E+00
397	ALL	433852.3	3711914	8.82E-08	0.833YrCar	8.82E-08	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	0.00E+00
398	ALL	433902.3	3711914	8.83E-08	0.833YrCar	8.83E-08	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	0.00E+00
399	ALL	433952.3	3711914	9.34E-08	0.833YrCar	9.34E-08	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	0.00E+00
400	ALL	434002.3	3711914	9.75E-08	0.833YrCar	9.75E-08	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	0.00E+00
401	ALL	434052.3	3711914	1.00E-07	0.833YrCar	1.00E-07	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	0.00E+00
402	ALL	434102.3	3711914	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
403	ALL	434152.3	3711914	1.09E-07	0.833YrCar	1.09E-07	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	0.00E+00
404	ALL	434902.3	3711914	1.85E-07	0.833YrCar	1.85E-07	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	0.00E+00
405	ALL	434952.3	3711914	1.48E-07	0.833YrCar	1.48E-07	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	0.00E+00
406	ALL	435002.3	3711914	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
407	ALL	435052.3	3711914	9.70E-08	0.833YrCar	9.70E-08	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	0.00E+00
408	ALL	435102.3	3711914	8.32E-08	0.833YrCar	8.32E-08	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	0.00E+00
409	ALL	435152.3	3711914	7.63E-08	0.833YrCar	7.63E-08	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	0.00E+00
410	ALL	435202.3	3711914	7.12E-08	0.833YrCar	7.12E-08	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	0.00E+00
411	ALL	435252.3	3711914	6.87E-08	0.833YrCar	6.87E-08	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	0.00E+00
412	ALL	435302.3	3711914	6.35E-08	0.833YrCar	6.35E-08	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	0.00E+00
413	ALL	435352.3	3711914	5.69E-08	0.833YrCar	5.69E-08	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	0.00E+00
414	ALL	435402.3	3711914	5.26E-08	0.833YrCar	5.26E-08	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	0.00E+00
415	ALL	435452.3	3711914	4.98E-08	0.833YrCar	4.98E-08	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	0.00E+00
416	ALL	433802.3	3711964	8.43E-08	0.833YrCar	8.43E-08	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	0.00E+00
417	ALL	433852.3	3711964	8.51E-08	0.833YrCar	8.51E-08	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	0.00E+00
418	ALL	433902.3	3711964	8.42E-08	0.833YrCar	8.42E-08	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	0.00E+00
419	ALL	433952.3	3711964	8.99E-08	0.833YrCar	8.99E-08	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	0.00E+00
420	ALL	434002.3	3711964	9.49E-08	0.833YrCar	9.49E-08	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	0.00E+00
421	ALL	434052.3	3711964	9.77E-08	0.833YrCar	9.77E-08	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	0.00E+00

422	ALL	434102.3	3711964	9.98E-08	0.833YrCar	9.98E-08	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	0.00E+00
423	ALL	434902.3	3711964	1.76E-07	0.833YrCar	1.76E-07	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	0.00E+00
424	ALL	434952.3	3711964	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
425	ALL	435002.3	3711964	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
426	ALL	435052.3	3711964	9.29E-08	0.833YrCar	9.29E-08	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	0.00E+00
427	ALL	435102.3	3711964	8.03E-08	0.833YrCar	8.03E-08	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	0.00E+00
428	ALL	435152.3	3711964	7.24E-08	0.833YrCar	7.24E-08	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	0.00E+00
429	ALL	435202.3	3711964	6.74E-08	0.833YrCar	6.74E-08	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	0.00E+00
430	ALL	435252.3	3711964	6.54E-08	0.833YrCar	6.54E-08	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	0.00E+00
431	ALL	435302.3	3711964	5.90E-08	0.833YrCar	5.90E-08	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	0.00E+00
432	ALL	435352.3	3711964	5.37E-08	0.833YrCar	5.37E-08	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	0.00E+00
433	ALL	433602.3	3712014	7.44E-08	0.833YrCar	7.44E-08	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	0.00E+00
434	ALL	433802.3	3712014	8.28E-08	0.833YrCar	8.28E-08	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	0.00E+00
435	ALL	433852.3	3712014	8.28E-08	0.833YrCar	8.28E-08	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	0.00E+00
436	ALL	433902.3	3712014	8.18E-08	0.833YrCar	8.18E-08	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	0.00E+00
437	ALL	433952.3	3712014	8.69E-08	0.833YrCar	8.69E-08	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	0.00E+00
438	ALL	434002.3	3712014	9.09E-08	0.833YrCar	9.09E-08	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	0.00E+00
439	ALL	434052.3	3712014	9.38E-08	0.833YrCar	9.38E-08	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	0.00E+00
440	ALL	434102.3	3712014	9.77E-08	0.833YrCar	9.77E-08	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	0.00E+00
441	ALL	434902.3	3712014	1.65E-07	0.833YrCar	1.65E-07	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	0.00E+00
442	ALL	434952.3	3712014	1.38E-07	0.833YrCar	1.38E-07	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	0.00E+00
443	ALL	435002.3	3712014	1.24E-07	0.833YrCar	1.24E-07	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	0.00E+00
444	ALL	435052.3	3712014	8.99E-08	0.833YrCar	8.99E-08	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	0.00E+00
445	ALL	435102.3	3712014	7.86E-08	0.833YrCar	7.86E-08	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	0.00E+00
446	ALL	435152.3	3712014	6.86E-08	0.833YrCar	6.86E-08	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	0.00E+00
447	ALL	435202.3	3712014	6.30E-08	0.833YrCar	6.30E-08	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	0.00E+00
448	ALL	435252.3	3712014	5.88E-08	0.833YrCar	5.88E-08	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	0.00E+00
449	ALL	435302.3	3712014	5.81E-08	0.833YrCar	5.81E-08	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	0.00E+00
450	ALL	435352.3	3712014	5.24E-08	0.833YrCar	5.24E-08	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	0.00E+00
451	ALL	433602.3	3712064	7.23E-08	0.833YrCar	7.23E-08	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	0.00E+00
452	ALL	433652.3	3712064	7.50E-08	0.833YrCar	7.50E-08	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	0.00E+00
453	ALL	433702.3	3712064	7.66E-08	0.833YrCar	7.66E-08	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	0.00E+00
454	ALL	433802.3	3712064	8.00E-08	0.833YrCar	8.00E-08	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	0.00E+00
455	ALL	433852.3	3712064	7.87E-08	0.833YrCar	7.87E-08	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	0.00E+00
456	ALL	433902.3	3712064	8.18E-08	0.833YrCar	8.18E-08	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	0.00E+00
457	ALL	433952.3	3712064	8.57E-08	0.833YrCar	8.57E-08	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	0.00E+00
458	ALL	434002.3	3712064	8.58E-08	0.833YrCar	8.58E-08	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	0.00E+00
459	ALL	434052.3	3712064	8.97E-08	0.833YrCar	8.97E-08	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	0.00E+00
460	ALL	434852.3	3712064	1.82E-07	0.833YrCar	1.82E-07	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	0.00E+00
461	ALL	434902.3	3712064	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
462	ALL	434952.3	3712064	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
463	ALL	435002.3	3712064	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
464	ALL	435052.3	3712064	9.37E-08	0.833YrCar	9.37E-08	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	0.00E+00
465	ALL	435102.3	3712064	7.62E-08	0.833YrCar	7.62E-08	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	0.00E+00
466	ALL	435152.3	3712064	6.69E-08	0.833YrCar	6.69E-08	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	0.00E+00
467	ALL	435202.3	3712064	6.03E-08	0.833YrCar	6.03E-08	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	0.00E+00
468	ALL	435252.3	3712064	5.77E-08	0.833YrCar	5.77E-08	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	0.00E+00

469	ALL	435302.3	3712064	5.70E-08	0.833YrCar	5.70E-08	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	0.00E+00
470	ALL	433752.3	3712114	7.43E-08	0.833YrCar	7.43E-08	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	0.00E+00
471	ALL	433802.3	3712114	7.56E-08	0.833YrCar	7.56E-08	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	0.00E+00
472	ALL	433852.3	3712114	7.61E-08	0.833YrCar	7.61E-08	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	0.00E+00
473	ALL	433902.3	3712114	7.92E-08	0.833YrCar	7.92E-08	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	0.00E+00
474	ALL	433952.3	3712114	8.28E-08	0.833YrCar	8.28E-08	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	0.00E+00
475	ALL	434002.3	3712114	8.26E-08	0.833YrCar	8.26E-08	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	0.00E+00
476	ALL	434052.3	3712114	8.64E-08	0.833YrCar	8.64E-08	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	0.00E+00
477	ALL	434852.3	3712114	1.68E-07	0.833YrCar	1.68E-07	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	0.00E+00
478	ALL	434902.3	3712114	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
479	ALL	434952.3	3712114	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
480	ALL	435002.3	3712114	1.19E-07	0.833YrCar	1.19E-07	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	0.00E+00
481	ALL	435052.3	3712114	9.80E-08	0.833YrCar	9.80E-08	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	0.00E+00
482	ALL	435102.3	3712114	7.86E-08	0.833YrCar	7.86E-08	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	0.00E+00
483	ALL	435152.3	3712114	6.71E-08	0.833YrCar	6.71E-08	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	0.00E+00
484	ALL	435202.3	3712114	6.12E-08	0.833YrCar	6.12E-08	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	0.00E+00
485	ALL	435252.3	3712114	5.83E-08	0.833YrCar	5.83E-08	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	0.00E+00
486	ALL	435302.3	3712114	5.51E-08	0.833YrCar	5.51E-08	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	0.00E+00
487	ALL	433752.3	3712164	7.17E-08	0.833YrCar	7.17E-08	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	0.00E+00
488	ALL	433802.3	3712164	7.24E-08	0.833YrCar	7.24E-08	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	0.00E+00
489	ALL	433852.3	3712164	7.34E-08	0.833YrCar	7.34E-08	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	0.00E+00
490	ALL	433902.3	3712164	7.69E-08	0.833YrCar	7.69E-08	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	0.00E+00
491	ALL	433952.3	3712164	8.04E-08	0.833YrCar	8.04E-08	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	0.00E+00
492	ALL	434002.3	3712164	8.04E-08	0.833YrCar	8.04E-08	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	0.00E+00
493	ALL	434052.3	3712164	8.38E-08	0.833YrCar	8.38E-08	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	0.00E+00
494	ALL	434852.3	3712164	1.55E-07	0.833YrCar	1.55E-07	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	0.00E+00
495	ALL	434902.3	3712164	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
496	ALL	434952.3	3712164	1.33E-07	0.833YrCar	1.33E-07	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	0.00E+00
497	ALL	435002.3	3712164	1.15E-07	0.833YrCar	1.15E-07	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	0.00E+00
498	ALL	435052.3	3712164	9.59E-08	0.833YrCar	9.59E-08	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	0.00E+00
499	ALL	435102.3	3712164	8.71E-08	0.833YrCar	8.71E-08	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	0.00E+00
500	ALL	435152.3	3712164	7.26E-08	0.833YrCar	7.26E-08	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	0.00E+00
501	ALL	435202.3	3712164	6.47E-08	0.833YrCar	6.47E-08	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	0.00E+00
502	ALL	435252.3	3712164	6.04E-08	0.833YrCar	6.04E-08	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	0.00E+00
503	ALL	433752.3	3712214	6.93E-08	0.833YrCar	6.93E-08	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	0.00E+00
504	ALL	433802.3	3712214	7.19E-08	0.833YrCar	7.19E-08	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	0.00E+00
505	ALL	433852.3	3712214	7.46E-08	0.833YrCar	7.46E-08	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	0.00E+00
506	ALL	433902.3	3712214	7.72E-08	0.833YrCar	7.72E-08	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	0.00E+00
507	ALL	433952.3	3712214	7.78E-08	0.833YrCar	7.78E-08	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	0.00E+00
508	ALL	434002.3	3712214	7.77E-08	0.833YrCar	7.77E-08	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	0.00E+00
509	ALL	434052.3	3712214	8.13E-08	0.833YrCar	8.13E-08	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	0.00E+00
510	ALL	434902.3	3712214	1.36E-07	0.833YrCar	1.36E-07	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	0.00E+00
511	ALL	434952.3	3712214	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
512	ALL	435002.3	3712214	1.13E-07	0.833YrCar	1.13E-07	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	0.00E+00
513	ALL	435052.3	3712214	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
514	ALL	435102.3	3712214	8.71E-08	0.833YrCar	8.71E-08	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	0.00E+00
515	ALL	435152.3	3712214	7.96E-08	0.833YrCar	7.96E-08	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	0.00E+00

516	ALL	435202.3	3712214	7.39E-08	0.833YrCar	7.39E-08	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	0.00E+00
517	ALL	435252.3	3712214	6.75E-08	0.833YrCar	6.75E-08	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	0.00E+00
518	ALL	433802.3	3712264	7.02E-08	0.833YrCar	7.02E-08	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	0.00E+00
519	ALL	433852.3	3712264	7.29E-08	0.833YrCar	7.29E-08	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	0.00E+00
520	ALL	433902.3	3712264	7.60E-08	0.833YrCar	7.60E-08	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	0.00E+00
521	ALL	433952.3	3712264	7.47E-08	0.833YrCar	7.47E-08	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	0.00E+00
522	ALL	434002.3	3712264	7.56E-08	0.833YrCar	7.56E-08	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	0.00E+00
523	ALL	434052.3	3712264	7.87E-08	0.833YrCar	7.87E-08	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	0.00E+00
524	ALL	434952.3	3712264	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
525	ALL	435002.3	3712264	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
526	ALL	435052.3	3712264	1.00E-07	0.833YrCar	1.00E-07	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	0.00E+00
527	ALL	435102.3	3712264	9.19E-08	0.833YrCar	9.19E-08	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	0.00E+00
528	ALL	435152.3	3712264	7.82E-08	0.833YrCar	7.82E-08	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	0.00E+00
529	ALL	435202.3	3712264	7.20E-08	0.833YrCar	7.20E-08	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	0.00E+00
530	ALL	433902.3	3712314	7.29E-08	0.833YrCar	7.29E-08	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	0.00E+00
531	ALL	433952.3	3712314	7.23E-08	0.833YrCar	7.23E-08	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	0.00E+00
532	ALL	434002.3	3712314	7.28E-08	0.833YrCar	7.28E-08	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	0.00E+00
533	ALL	434052.3	3712314	7.57E-08	0.833YrCar	7.57E-08	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	0.00E+00
534	ALL	435002.3	3712314	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
535	ALL	435052.3	3712314	9.64E-08	0.833YrCar	9.64E-08	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	0.00E+00
536	ALL	435102.3	3712314	8.85E-08	0.833YrCar	8.85E-08	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	0.00E+00
537	ALL	435152.3	3712314	7.60E-08	0.833YrCar	7.60E-08	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	0.00E+00
538	ALL	435202.3	3712314	6.97E-08	0.833YrCar	6.97E-08	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	0.00E+00
539	ALL	433902.3	3712364	6.87E-08	0.833YrCar	6.87E-08	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	0.00E+00
540	ALL	433952.3	3712364	6.96E-08	0.833YrCar	6.96E-08	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	0.00E+00
541	ALL	434002.3	3712364	7.10E-08	0.833YrCar	7.10E-08	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	0.00E+00
542	ALL	435052.3	3712364	9.15E-08	0.833YrCar	9.15E-08	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	0.00E+00
543	ALL	435102.3	3712364	8.43E-08	0.833YrCar	8.43E-08	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	0.00E+00
544	ALL	435152.3	3712364	7.37E-08	0.833YrCar	7.37E-08	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	0.00E+00
545	ALL	435202.3	3712364	6.74E-08	0.833YrCar	6.74E-08	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	0.00E+00
546	ALL	435102.3	3712414	7.96E-08	0.833YrCar	7.96E-08	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	0.00E+00
547	ALL	435152.3	3712414	7.19E-08	0.833YrCar	7.19E-08	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	0.00E+00
548	ALL	435202.3	3712414	6.55E-08	0.833YrCar	6.55E-08	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	0.00E+00
549	ALL	435152.3	3712464	6.96E-08	0.833YrCar	6.96E-08	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	0.00E+00
550	ALL	435202.3	3712464	6.43E-08	0.833YrCar	6.43E-08	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	0.00E+00
551	ALL	434741.1	3711168	8.07E-07	0.833YrCar	8.07E-07	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	0.00E+00
552	ALL	434716.3	3711074	5.13E-07	0.833YrCar	5.13E-07	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	0.00E+00
553	ALL	434678.2	3711012	3.66E-07	0.833YrCar	3.66E-07	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	0.00E+00
554	ALL	434657.8	3710980	2.99E-07	0.833YrCar	2.99E-07	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	0.00E+00
555	ALL	434615.3	3710921	2.14E-07	0.833YrCar	2.14E-07	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	0.00E+00
556	ALL	434571.5	3710874	1.75E-07	0.833YrCar	1.75E-07	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	0.00E+00
557	ALL	434560.5	3710848	1.58E-07	0.833YrCar	1.58E-07	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	0.00E+00
558	ALL	434528.6	3710778	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
559	ALL	434522.5	3710726	1.09E-07	0.833YrCar	1.09E-07	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	0.00E+00
560	ALL	434488.1	3710709	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
561	ALL	434479.5	3710678	9.43E-08	0.833YrCar	9.43E-08	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	0.00E+00
562	ALL	434470.9	3710646	8.86E-08	0.833YrCar	8.86E-08	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	0.00E+00
563	ALL	434423.1	3710596	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
564	ALL	434405.9	3710553	9.53E-08	0.833YrCar	9.53E-08	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	0.00E+00
565	ALL	434413.3	3710532	9.03E-08	0.833YrCar	9.03E-08	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	0.00E+00
566	ALL	434456.2	3710461	9.33E-08	0.833YrCar	9.33E-08	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	0.00E+00
567	ALL	434606.1	3710569	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
568	ALL	434690	3710617	1.32E-07	0.833YrCar	1.32E-07	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	0.00E+00
569	ALL	434797.9	3710732	1.97E-07	0.833YrCar	1.97E-07	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	0.00E+00
570	ALL	434889.8	3710824	2.33E-07	0.833YrCar	2.33E-07	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	0.00E+00
571	ALL	435035.7	3711006	2.24E-07	0.833YrCar	2.24E-07	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	0.00E+00
572	ALL	434959.7	3711068	2.52E-07	0.833YrCar	2.52E-07	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	0.00E+00
573	ALL	434833.8	3711150	4.63E-07	0.833YrCar	4.63E-07	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	0.00E+00
574	ALL	435104.5	3711163	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
575	ALL	435039.5	3711149	1.66E-07	0.833YrCar	1.66E-07	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	0.00E+00
576	ALL	434986.1	3711185	2.11E-07	0.833YrCar	2.11E-07	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	0.00E+00
577	ALL	434937	3711227	2.98E-07	0.833YrCar	2.98E-07	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	0.00E+00
578	ALL	434874.9	3711266	5.59E-07	0.833YrCar	5.59E-07	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	0.00E+00
579	ALL	434831.6	3711306	1.09E-06	0.833YrCar	1.09E-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	0.00E+00
580	ALL	434801.3	3711357	1.53E-06	0.833YrCar	1.53E-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	0.00E+00
581	ALL	434857.6	3711403	7.68E-07	0.833YrCar	7.68E-07	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	0.00E+00
582	ALL	434818.6	3711491	5.03E-07	0.833YrCar	5.03E-07	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	0.00E+00
583	ALL	434804.2	3711580	4.11E-07	0.833YrCar	4.11E-07	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	0.00E+00
584	ALL	434838.8	3711689	2.64E-07	0.833YrCar	2.64E-07	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	0.00E+00
585	ALL	434882.1	3711759	1.94E-07	0.833YrCar	1.94E-07	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	0.00E+00
586	ALL	434926.9	3711800	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
587	ALL	434880.7	3711850	1.97E-07	0.833YrCar	1.97E-07	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	0.00E+00
588	ALL	434872	3712012	1.76E-07	0.833YrCar	1.76E-07	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	0.00E+00
589	ALL	434807.1	3712129	1.71E-07	0.833YrCar	1.71E-07	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	0.00E+00
590	ALL	434822.9	3712172	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
591	ALL	434892.9	3712227	1.35E-07	0.833YrCar	1.35E-07	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	0.00E+00
592	ALL	434967.7	3712292	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
593	ALL	435045.8	3712382	9.07E-08	0.833YrCar	9.07E-08	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	0.00E+00
594	ALL	435112	3712464	7.41E-08	0.833YrCar	7.41E-08	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	0.00E+00
595	ALL	435173.2	3712489	6.56E-08	0.833YrCar	6.56E-08	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	0.00E+00
596	ALL	435227.5	3712494	5.96E-08	0.833YrCar	5.96E-08	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	0.00E+00
597	ALL	435227.5	3712340	6.56E-08	0.833YrCar	6.56E-08	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	0.00E+00
598	ALL	435244.5	3712229	6.84E-08	0.833YrCar	6.84E-08	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	0.00E+00
599	ALL	435292.1	3712141	5.50E-08	0.833YrCar	5.50E-08	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	0.00E+00
600	ALL	435319.3	3712105	5.45E-08	0.833YrCar	5.45E-08	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	0.00E+00
601	ALL	435368.5	3711996	5.15E-08	0.833YrCar	5.15E-08	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	0.00E+00
602	ALL	435560.4	3711808	4.46E-08	0.833YrCar	4.46E-08	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	0.00E+00
603	ALL	435563.8	3711782	4.39E-08	0.833YrCar	4.39E-08	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	0.00E+00
604	ALL	435516.3	3711743	4.84E-08	0.833YrCar	4.84E-08	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	0.00E+00
605	ALL	435458.5	3711667	5.65E-08	0.833YrCar	5.65E-08	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	0.00E+00
606	ALL	435385.5	3711565	7.58E-08	0.833YrCar	7.58E-08	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	0.00E+00
607	ALL	435361.7	3711551	8.11E-08	0.833YrCar	8.11E-08	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	0.00E+00
608	ALL	435431.4	3711483	7.86E-08	0.833YrCar	7.86E-08	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	0.00E+00
609	ALL	435354.9	3711378	8.56E-08	0.833YrCar	8.56E-08	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	0.00E+00

610	ALL	435213.9	3711259	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
611	ALL	435147.7	3711185	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
612	ALL	433929.2	3712407	6.80E-08	0.833YrCar	6.80E-08	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	0.00E+00
613	ALL	434034.7	3712360	7.29E-08	0.833YrCar	7.29E-08	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	0.00E+00
614	ALL	434081.6	3712259	8.10E-08	0.833YrCar	8.10E-08	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	0.00E+00
615	ALL	434097.3	3712149	8.79E-08	0.833YrCar	8.79E-08	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	0.00E+00
616	ALL	434097.3	3712028	9.59E-08	0.833YrCar	9.59E-08	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	0.00E+00
617	ALL	434155.9	3711919	1.09E-07	0.833YrCar	1.09E-07	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	0.00E+00
618	ALL	434175.4	3711806	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00
619	ALL	434194.9	3711739	1.52E-07	0.833YrCar	1.52E-07	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	0.00E+00
620	ALL	434265.3	3711759	1.65E-07	0.833YrCar	1.65E-07	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	0.00E+00
621	ALL	434359.1	3711860	1.58E-07	0.833YrCar	1.58E-07	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	0.00E+00
622	ALL	434351.2	3711630	2.52E-07	0.833YrCar	2.52E-07	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	0.00E+00
623	ALL	434269.2	3711653	1.98E-07	0.833YrCar	1.98E-07	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	0.00E+00
624	ALL	434249.6	3711700	1.77E-07	0.833YrCar	1.77E-07	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	0.00E+00
625	ALL	434140.2	3711708	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
626	ALL	434115.5	3711671	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
627	ALL	434110.3	3711583	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
628	ALL	434089.5	3711552	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
629	ALL	434067	3711502	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
630	ALL	434115.5	3711453	1.80E-07	0.833YrCar	1.80E-07	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	0.00E+00
631	ALL	434184.9	3711446	2.20E-07	0.833YrCar	2.20E-07	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	0.00E+00
632	ALL	434223	3711398	2.65E-07	0.833YrCar	2.65E-07	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	0.00E+00
633	ALL	434177.9	3711392	2.32E-07	0.833YrCar	2.32E-07	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	0.00E+00
634	ALL	434056.6	3711441	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
635	ALL	434080.8	3711366	1.78E-07	0.833YrCar	1.78E-07	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	0.00E+00
636	ALL	434113.8	3711243	2.15E-07	0.833YrCar	2.15E-07	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	0.00E+00
637	ALL	434169.3	3711172	2.67E-07	0.833YrCar	2.67E-07	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	0.00E+00
638	ALL	434106.8	3711155	2.21E-07	0.833YrCar	2.21E-07	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	0.00E+00
639	ALL	434075.6	3711105	2.07E-07	0.833YrCar	2.07E-07	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	0.00E+00
640	ALL	434072.2	3711016	2.10E-07	0.833YrCar	2.10E-07	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	0.00E+00
641	ALL	434094.7	3710968	2.20E-07	0.833YrCar	2.20E-07	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	0.00E+00
642	ALL	434034	3710896	1.92E-07	0.833YrCar	1.92E-07	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	0.00E+00
643	ALL	434025.3	3710836	1.70E-07	0.833YrCar	1.70E-07	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	0.00E+00
644	ALL	433997.6	3710765	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
645	ALL	434028.8	3710711	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
646	ALL	433976.8	3710713	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
647	ALL	433938.6	3710659	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
648	ALL	433947.3	3710612	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
649	ALL	433947.3	3710574	9.64E-08	0.833YrCar	9.64E-08	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	0.00E+00
650	ALL	433942.1	3710527	8.68E-08	0.833YrCar	8.68E-08	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	0.00E+00
651	ALL	433940.4	3710472	7.75E-08	0.833YrCar	7.75E-08	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	0.00E+00
652	ALL	433924.8	3710401	6.76E-08	0.833YrCar	6.76E-08	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	0.00E+00
653	ALL	433876.2	3710231	5.53E-08	0.833YrCar	5.53E-08	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	0.00E+00
654	ALL	433685.5	3710253	6.64E-08	0.833YrCar	6.64E-08	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	0.00E+00
655	ALL	433744.5	3710572	1.10E-07	0.833YrCar	1.10E-07	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	0.00E+00
656	ALL	433793	3710770	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00

657	ALL	433772.2	3710867	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
658	ALL	433825.9	3710890	1.55E-07	0.833YrCar	1.55E-07	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	0.00E+00
659	ALL	433817.3	3710971	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
660	ALL	433753.1	3711018	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
661	ALL	433751.4	3711155	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
662	ALL	433827.7	3711257	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
663	ALL	433900.5	3711328	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
664	ALL	433992.4	3711356	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
665	ALL	434008	3711481	1.43E-07	0.833YrCar	1.43E-07	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	0.00E+00
666	ALL	433888.4	3711550	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
667	ALL	433838.1	3711729	9.88E-08	0.833YrCar	9.88E-08	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	0.00E+00
668	ALL	433747.9	3711737	8.73E-08	0.833YrCar	8.73E-08	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	0.00E+00
669	ALL	433720.2	3711765	8.40E-08	0.833YrCar	8.40E-08	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	0.00E+00
670	ALL	433782.6	3711833	8.77E-08	0.833YrCar	8.77E-08	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	0.00E+00
671	ALL	433794.7	3711921	8.48E-08	0.833YrCar	8.48E-08	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	0.00E+00
672	ALL	433756.6	3712086	7.63E-08	0.833YrCar	7.63E-08	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	0.00E+00
673	ALL	433590.1	3712003	7.41E-08	0.833YrCar	7.41E-08	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	0.00E+00
674	ALL	433586.7	3712065	7.13E-08	0.833YrCar	7.13E-08	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	0.00E+00
675	ALL	433728.9	3712121	7.28E-08	0.833YrCar	7.28E-08	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	0.00E+00
676	ALL	433732.3	3712211	6.92E-08	0.833YrCar	6.92E-08	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	0.00E+00
677	ALL	433787.8	3712266	6.98E-08	0.833YrCar	6.98E-08	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	0.00E+00
678	ALL	433878	3712275	7.45E-08	0.833YrCar	7.45E-08	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	0.00E+00
679	ALL	433874.5	3712330	7.08E-08	0.833YrCar	7.08E-08	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	0.00E+00
680	ALL	434734.9	3711145	7.10E-07	0.833YrCar	7.10E-07	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	0.00E+00
681	ALL	434728.7	3711121	6.41E-07	0.833YrCar	6.41E-07	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	0.00E+00
682	ALL	434722.5	3711098	5.76E-07	0.833YrCar	5.76E-07	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	0.00E+00
683	ALL	434703.6	3711053	4.68E-07	0.833YrCar	4.68E-07	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	0.00E+00
684	ALL	434690.9	3711032	4.17E-07	0.833YrCar	4.17E-07	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	0.00E+00
685	ALL	434668	3710996	3.31E-07	0.833YrCar	3.31E-07	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	0.00E+00
686	ALL	434643.6	3710960	2.65E-07	0.833YrCar	2.65E-07	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	0.00E+00
687	ALL	434629.4	3710941	2.36E-07	0.833YrCar	2.36E-07	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	0.00E+00
688	ALL	434600.7	3710905	1.98E-07	0.833YrCar	1.98E-07	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	0.00E+00
689	ALL	434586.1	3710890	1.85E-07	0.833YrCar	1.85E-07	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	0.00E+00
690	ALL	434566	3710861	1.66E-07	0.833YrCar	1.66E-07	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	0.00E+00
691	ALL	434552.5	3710831	1.48E-07	0.833YrCar	1.48E-07	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	0.00E+00
692	ALL	434544.6	3710813	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
693	ALL	434536.6	3710796	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00
694	ALL	434526.6	3710761	1.20E-07	0.833YrCar	1.20E-07	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	0.00E+00
695	ALL	434524.5	3710743	1.14E-07	0.833YrCar	1.14E-07	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	0.00E+00
696	ALL	434505.3	3710717	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
697	ALL	434483.8	3710693	1.00E-07	0.833YrCar	1.00E-07	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	0.00E+00
698	ALL	434475.2	3710662	9.05E-08	0.833YrCar	9.05E-08	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	0.00E+00
699	ALL	434455	3710629	9.19E-08	0.833YrCar	9.19E-08	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	0.00E+00
700	ALL	434439	3710612	9.95E-08	0.833YrCar	9.95E-08	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	0.00E+00
701	ALL	434414.5	3710574	9.91E-08	0.833YrCar	9.91E-08	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	0.00E+00
702	ALL	434424	3710514	8.81E-08	0.833YrCar	8.81E-08	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	0.00E+00
703	ALL	434434.7	3710496	8.81E-08	0.833YrCar	8.81E-08	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	0.00E+00

704	ALL	434445.5	3710478	9.13E-08	0.833YrCar	9.13E-08	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	0.00E+00
705	ALL	434474.9	3710474	9.34E-08	0.833YrCar	9.34E-08	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	0.00E+00
706	ALL	434493.7	3710488	9.51E-08	0.833YrCar	9.51E-08	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	0.00E+00
707	ALL	434512.4	3710501	9.76E-08	0.833YrCar	9.76E-08	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	0.00E+00
708	ALL	434531.1	3710515	9.94E-08	0.833YrCar	9.94E-08	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	0.00E+00
709	ALL	434549.9	3710528	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
710	ALL	434568.6	3710542	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
711	ALL	434587.3	3710555	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
712	ALL	434627	3710581	1.14E-07	0.833YrCar	1.14E-07	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	0.00E+00
713	ALL	434648	3710593	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
714	ALL	434669	3710605	1.28E-07	0.833YrCar	1.28E-07	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	0.00E+00
715	ALL	434705.4	3710633	1.38E-07	0.833YrCar	1.38E-07	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	0.00E+00
716	ALL	434720.8	3710650	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
717	ALL	434736.2	3710666	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
718	ALL	434751.6	3710683	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
719	ALL	434767	3710699	1.75E-07	0.833YrCar	1.75E-07	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	0.00E+00
720	ALL	434782.5	3710716	1.84E-07	0.833YrCar	1.84E-07	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	0.00E+00
721	ALL	434813.2	3710748	2.07E-07	0.833YrCar	2.07E-07	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	0.00E+00
722	ALL	434828.5	3710763	2.11E-07	0.833YrCar	2.11E-07	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	0.00E+00
723	ALL	434843.8	3710778	2.13E-07	0.833YrCar	2.13E-07	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	0.00E+00
724	ALL	434859.1	3710794	2.19E-07	0.833YrCar	2.19E-07	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	0.00E+00
725	ALL	434874.5	3710809	2.26E-07	0.833YrCar	2.26E-07	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	0.00E+00
726	ALL	434904.4	3710843	2.40E-07	0.833YrCar	2.40E-07	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	0.00E+00
727	ALL	434919	3710861	2.45E-07	0.833YrCar	2.45E-07	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	0.00E+00
728	ALL	434933.5	3710879	2.48E-07	0.833YrCar	2.48E-07	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	0.00E+00
729	ALL	434948.1	3710897	2.49E-07	0.833YrCar	2.49E-07	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	0.00E+00
730	ALL	434962.7	3710915	2.49E-07	0.833YrCar	2.49E-07	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	0.00E+00
731	ALL	434977.3	3710933	2.47E-07	0.833YrCar	2.47E-07	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	0.00E+00
732	ALL	434991.9	3710952	2.42E-07	0.833YrCar	2.42E-07	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	0.00E+00
733	ALL	435006.5	3710970	2.36E-07	0.833YrCar	2.36E-07	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	0.00E+00
734	ALL	435021.1	3710988	2.26E-07	0.833YrCar	2.26E-07	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	0.00E+00
735	ALL	435016.7	3711022	2.32E-07	0.833YrCar	2.32E-07	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	0.00E+00
736	ALL	434997.7	3711037	2.39E-07	0.833YrCar	2.39E-07	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	0.00E+00
737	ALL	434978.7	3711053	2.35E-07	0.833YrCar	2.35E-07	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	0.00E+00
738	ALL	434941.7	3711080	2.62E-07	0.833YrCar	2.62E-07	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	0.00E+00
739	ALL	434923.8	3711092	2.80E-07	0.833YrCar	2.80E-07	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	0.00E+00
740	ALL	434905.8	3711103	3.01E-07	0.833YrCar	3.01E-07	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	0.00E+00
741	ALL	434887.8	3711115	3.26E-07	0.833YrCar	3.26E-07	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	0.00E+00
742	ALL	434869.8	3711127	3.64E-07	0.833YrCar	3.64E-07	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	0.00E+00
743	ALL	434851.8	3711138	4.07E-07	0.833YrCar	4.07E-07	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	0.00E+00
744	ALL	434810.7	3711155	5.32E-07	0.833YrCar	5.32E-07	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	0.00E+00
745	ALL	434787.5	3711159	6.12E-07	0.833YrCar	6.12E-07	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	0.00E+00
746	ALL	434764.3	3711164	7.01E-07	0.833YrCar	7.01E-07	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	0.00E+00
747	ALL	435082.8	3711158	1.51E-07	0.833YrCar	1.51E-07	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	0.00E+00
748	ALL	435061.2	3711153	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
749	ALL	435021.7	3711161	1.78E-07	0.833YrCar	1.78E-07	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	0.00E+00
750	ALL	435003.9	3711173	1.91E-07	0.833YrCar	1.91E-07	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	0.00E+00

751	ALL	434969.7	3711199	2.41E-07	0.833YrCar	2.41E-07	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	0.00E+00
752	ALL	434953.4	3711213	2.66E-07	0.833YrCar	2.66E-07	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	0.00E+00
753	ALL	434916.3	3711240	3.71E-07	0.833YrCar	3.71E-07	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	0.00E+00
754	ALL	434895.6	3711253	4.66E-07	0.833YrCar	4.66E-07	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	0.00E+00
755	ALL	434860.5	3711279	6.99E-07	0.833YrCar	6.99E-07	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	0.00E+00
756	ALL	434846	3711293	9.03E-07	0.833YrCar	9.03E-07	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	0.00E+00
757	ALL	434821.5	3711323	1.23E-06	0.833YrCar	1.23E-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	0.00E+00
758	ALL	434811.4	3711340	1.37E-06	0.833YrCar	1.37E-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	0.00E+00
759	ALL	434820.1	3711372	1.18E-06	0.833YrCar	1.18E-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	0.00E+00
760	ALL	434838.8	3711387	9.59E-07	0.833YrCar	9.59E-07	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	0.00E+00
761	ALL	434847.9	3711425	6.91E-07	0.833YrCar	6.91E-07	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	0.00E+00
762	ALL	434838.1	3711447	5.59E-07	0.833YrCar	5.59E-07	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	0.00E+00
763	ALL	434828.4	3711469	5.15E-07	0.833YrCar	5.15E-07	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	0.00E+00
764	ALL	434815	3711513	4.82E-07	0.833YrCar	4.82E-07	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	0.00E+00
765	ALL	434811.4	3711536	4.59E-07	0.833YrCar	4.59E-07	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	0.00E+00
766	ALL	434807.8	3711558	4.35E-07	0.833YrCar	4.35E-07	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	0.00E+00
767	ALL	434811.1	3711602	3.71E-07	0.833YrCar	3.71E-07	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	0.00E+00
768	ALL	434818	3711624	3.35E-07	0.833YrCar	3.35E-07	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	0.00E+00
769	ALL	434825	3711645	3.08E-07	0.833YrCar	3.08E-07	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	0.00E+00
770	ALL	434831.9	3711667	2.85E-07	0.833YrCar	2.85E-07	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	0.00E+00
771	ALL	434849.7	3711706	2.43E-07	0.833YrCar	2.43E-07	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	0.00E+00
772	ALL	434860.5	3711724	2.25E-07	0.833YrCar	2.25E-07	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	0.00E+00
773	ALL	434871.3	3711742	2.07E-07	0.833YrCar	2.07E-07	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	0.00E+00
774	ALL	434897.1	3711773	1.81E-07	0.833YrCar	1.81E-07	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	0.00E+00
775	ALL	434912	3711786	1.69E-07	0.833YrCar	1.69E-07	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	0.00E+00
776	ALL	434911.5	3711817	1.72E-07	0.833YrCar	1.72E-07	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	0.00E+00
777	ALL	434896.1	3711833	1.87E-07	0.833YrCar	1.87E-07	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	0.00E+00
778	ALL	434879.5	3711873	1.97E-07	0.833YrCar	1.97E-07	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	0.00E+00
779	ALL	434878.2	3711897	2.00E-07	0.833YrCar	2.00E-07	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	0.00E+00
780	ALL	434877	3711920	2.00E-07	0.833YrCar	2.00E-07	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	0.00E+00
781	ALL	434875.7	3711943	1.94E-07	0.833YrCar	1.94E-07	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	0.00E+00
782	ALL	434874.5	3711966	1.87E-07	0.833YrCar	1.87E-07	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	0.00E+00
783	ALL	434873.3	3711989	1.81E-07	0.833YrCar	1.81E-07	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	0.00E+00
784	ALL	434861.2	3712032	1.81E-07	0.833YrCar	1.81E-07	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	0.00E+00
785	ALL	434850.4	3712051	1.85E-07	0.833YrCar	1.85E-07	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	0.00E+00
786	ALL	434839.5	3712071	1.84E-07	0.833YrCar	1.84E-07	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	0.00E+00
787	ALL	434828.7	3712090	1.80E-07	0.833YrCar	1.80E-07	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	0.00E+00
788	ALL	434817.9	3712109	1.75E-07	0.833YrCar	1.75E-07	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	0.00E+00
789	ALL	434815	3712151	1.64E-07	0.833YrCar	1.64E-07	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	0.00E+00
790	ALL	434840.4	3712186	1.51E-07	0.833YrCar	1.51E-07	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	0.00E+00
791	ALL	434857.9	3712200	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
792	ALL	434875.4	3712214	1.40E-07	0.833YrCar	1.40E-07	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	0.00E+00
793	ALL	434911.6	3712244	1.29E-07	0.833YrCar	1.29E-07	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	0.00E+00
794	ALL	434930.3	3712260	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
795	ALL	434949	3712276	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
796	ALL	434983.3	3712310	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
797	ALL	434998.9	3712328	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00

798	ALL	435014.5	3712346	9.85E-08	0.833YrCar	9.85E-08	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	0.00E+00
799	ALL	435030.2	3712364	9.44E-08	0.833YrCar	9.44E-08	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	0.00E+00
800	ALL	435059	3712398	8.77E-08	0.833YrCar	8.77E-08	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	0.00E+00
801	ALL	435072.3	3712415	8.45E-08	0.833YrCar	8.45E-08	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	0.00E+00
802	ALL	435085.5	3712431	8.09E-08	0.833YrCar	8.09E-08	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	0.00E+00
803	ALL	435098.8	3712447	7.68E-08	0.833YrCar	7.68E-08	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	0.00E+00
804	ALL	435132.4	3712472	7.11E-08	0.833YrCar	7.11E-08	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	0.00E+00
805	ALL	435152.8	3712481	6.83E-08	0.833YrCar	6.83E-08	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	0.00E+00
806	ALL	435191.3	3712491	6.38E-08	0.833YrCar	6.38E-08	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	0.00E+00
807	ALL	435209.4	3712492	6.21E-08	0.833YrCar	6.21E-08	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	0.00E+00
808	ALL	435227.5	3712472	6.09E-08	0.833YrCar	6.09E-08	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	0.00E+00
809	ALL	435227.5	3712450	6.16E-08	0.833YrCar	6.16E-08	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	0.00E+00
810	ALL	435227.5	3712428	6.21E-08	0.833YrCar	6.21E-08	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	0.00E+00
811	ALL	435227.5	3712406	6.27E-08	0.833YrCar	6.27E-08	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	0.00E+00
812	ALL	435227.5	3712384	6.35E-08	0.833YrCar	6.35E-08	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	0.00E+00
813	ALL	435227.5	3712362	6.45E-08	0.833YrCar	6.45E-08	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	0.00E+00
814	ALL	435230.9	3712317	6.63E-08	0.833YrCar	6.63E-08	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	0.00E+00
815	ALL	435234.3	3712295	6.70E-08	0.833YrCar	6.70E-08	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	0.00E+00
816	ALL	435237.7	3712273	6.74E-08	0.833YrCar	6.74E-08	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	0.00E+00
817	ALL	435241.1	3712251	6.78E-08	0.833YrCar	6.78E-08	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	0.00E+00
818	ALL	435254	3712211	6.71E-08	0.833YrCar	6.71E-08	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	0.00E+00
819	ALL	435263.5	3712194	6.41E-08	0.833YrCar	6.41E-08	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	0.00E+00
820	ALL	435273.1	3712176	5.91E-08	0.833YrCar	5.91E-08	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	0.00E+00
821	ALL	435282.6	3712158	5.53E-08	0.833YrCar	5.53E-08	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	0.00E+00
822	ALL	435305.7	3712123	5.46E-08	0.833YrCar	5.46E-08	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	0.00E+00
823	ALL	435329.1	3712083	5.48E-08	0.833YrCar	5.48E-08	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	0.00E+00
824	ALL	435339	3712062	5.51E-08	0.833YrCar	5.51E-08	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	0.00E+00
825	ALL	435348.8	3712040	5.33E-08	0.833YrCar	5.33E-08	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	0.00E+00
826	ALL	435358.7	3712018	5.19E-08	0.833YrCar	5.19E-08	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	0.00E+00
827	ALL	435386	3711979	5.10E-08	0.833YrCar	5.10E-08	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	0.00E+00
828	ALL	435403.4	3711962	5.09E-08	0.833YrCar	5.09E-08	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	0.00E+00
829	ALL	435420.9	3711945	5.06E-08	0.833YrCar	5.06E-08	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	0.00E+00
830	ALL	435438.3	3711928	5.02E-08	0.833YrCar	5.02E-08	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	0.00E+00
831	ALL	435455.8	3711911	4.96E-08	0.833YrCar	4.96E-08	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	0.00E+00
832	ALL	435473.2	3711894	4.89E-08	0.833YrCar	4.89E-08	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	0.00E+00
833	ALL	435490.7	3711876	4.73E-08	0.833YrCar	4.73E-08	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	0.00E+00
834	ALL	435508.1	3711859	4.67E-08	0.833YrCar	4.67E-08	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	0.00E+00
835	ALL	435525.5	3711842	4.58E-08	0.833YrCar	4.58E-08	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	0.00E+00
836	ALL	435543	3711825	4.53E-08	0.833YrCar	4.53E-08	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	0.00E+00
837	ALL	435562.1	3711795	4.42E-08	0.833YrCar	4.42E-08	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	0.00E+00
838	ALL	435548	3711769	4.53E-08	0.833YrCar	4.53E-08	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	0.00E+00
839	ALL	435532.1	3711756	4.67E-08	0.833YrCar	4.67E-08	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	0.00E+00
840	ALL	435501.8	3711724	5.00E-08	0.833YrCar	5.00E-08	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	0.00E+00
841	ALL	435487.4	3711705	5.18E-08	0.833YrCar	5.18E-08	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	0.00E+00
842	ALL	435473	3711686	5.41E-08	0.833YrCar	5.41E-08	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	0.00E+00
843	ALL	435446.4	3711650	5.92E-08	0.833YrCar	5.92E-08	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	0.00E+00
844	ALL	435434.2	3711633	6.20E-08	0.833YrCar	6.20E-08	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	0.00E+00

845	ALL	435422	3711616	6.50E-08	0.833YrCar	6.50E-08	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	0.00E+00
846	ALL	435409.8	3711599	6.86E-08	0.833YrCar	6.86E-08	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	0.00E+00
847	ALL	435397.7	3711582	7.15E-08	0.833YrCar	7.15E-08	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	0.00E+00
848	ALL	435373.6	3711558	7.80E-08	0.833YrCar	7.80E-08	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	0.00E+00
849	ALL	435379.1	3711534	7.91E-08	0.833YrCar	7.91E-08	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	0.00E+00
850	ALL	435396.5	3711517	7.87E-08	0.833YrCar	7.87E-08	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	0.00E+00
851	ALL	435413.9	3711500	7.92E-08	0.833YrCar	7.92E-08	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	0.00E+00
852	ALL	435418.6	3711466	7.90E-08	0.833YrCar	7.90E-08	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	0.00E+00
853	ALL	435405.9	3711448	7.99E-08	0.833YrCar	7.99E-08	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	0.00E+00
854	ALL	435393.1	3711431	8.21E-08	0.833YrCar	8.21E-08	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	0.00E+00
855	ALL	435380.4	3711413	8.35E-08	0.833YrCar	8.35E-08	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	0.00E+00
856	ALL	435367.7	3711396	8.42E-08	0.833YrCar	8.42E-08	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	0.00E+00
857	ALL	435337.3	3711363	8.74E-08	0.833YrCar	8.74E-08	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	0.00E+00
858	ALL	435319.7	3711348	9.03E-08	0.833YrCar	9.03E-08	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	0.00E+00
859	ALL	435302.1	3711334	9.31E-08	0.833YrCar	9.31E-08	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	0.00E+00
860	ALL	435284.4	3711319	9.66E-08	0.833YrCar	9.66E-08	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	0.00E+00
861	ALL	435266.8	3711304	9.93E-08	0.833YrCar	9.93E-08	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	0.00E+00
862	ALL	435249.2	3711289	1.03E-07	0.833YrCar	1.03E-07	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	0.00E+00
863	ALL	435231.6	3711274	1.07E-07	0.833YrCar	1.07E-07	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	0.00E+00
864	ALL	435197.4	3711241	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
865	ALL	435180.8	3711222	1.19E-07	0.833YrCar	1.19E-07	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	0.00E+00
866	ALL	435164.3	3711203	1.24E-07	0.833YrCar	1.24E-07	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	0.00E+00
867	ALL	435126.1	3711174	1.39E-07	0.833YrCar	1.39E-07	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	0.00E+00
868	ALL	433950.3	3712398	6.88E-08	0.833YrCar	6.88E-08	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	0.00E+00
869	ALL	433971.4	3712389	6.91E-08	0.833YrCar	6.91E-08	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	0.00E+00
870	ALL	433992.5	3712379	6.98E-08	0.833YrCar	6.98E-08	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	0.00E+00
871	ALL	434013.6	3712370	7.16E-08	0.833YrCar	7.16E-08	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	0.00E+00
872	ALL	434044.1	3712340	7.35E-08	0.833YrCar	7.35E-08	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	0.00E+00
873	ALL	434053.5	3712320	7.55E-08	0.833YrCar	7.55E-08	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	0.00E+00
874	ALL	434062.9	3712300	7.73E-08	0.833YrCar	7.73E-08	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	0.00E+00
875	ALL	434072.2	3712279	7.88E-08	0.833YrCar	7.88E-08	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	0.00E+00
876	ALL	434084.8	3712237	8.20E-08	0.833YrCar	8.20E-08	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	0.00E+00
877	ALL	434087.9	3712215	8.32E-08	0.833YrCar	8.32E-08	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	0.00E+00
878	ALL	434091	3712193	8.48E-08	0.833YrCar	8.48E-08	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	0.00E+00
879	ALL	434094.1	3712171	8.63E-08	0.833YrCar	8.63E-08	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	0.00E+00
880	ALL	434097.3	3712125	8.96E-08	0.833YrCar	8.96E-08	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	0.00E+00
881	ALL	434097.3	3712101	9.14E-08	0.833YrCar	9.14E-08	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	0.00E+00
882	ALL	434097.3	3712077	9.27E-08	0.833YrCar	9.27E-08	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	0.00E+00
883	ALL	434097.3	3712053	9.41E-08	0.833YrCar	9.41E-08	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	0.00E+00
884	ALL	434109	3712006	9.90E-08	0.833YrCar	9.90E-08	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	0.00E+00
885	ALL	434120.7	3711985	1.01E-07	0.833YrCar	1.01E-07	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	0.00E+00
886	ALL	434132.4	3711963	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
887	ALL	434144.1	3711941	1.04E-07	0.833YrCar	1.04E-07	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	0.00E+00
888	ALL	434159.8	3711896	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
889	ALL	434163.7	3711874	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
890	ALL	434167.6	3711851	1.21E-07	0.833YrCar	1.21E-07	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	0.00E+00
891	ALL	434171.5	3711828	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00

892	ALL	434181.9	3711783	1.42E-07	0.833YrCar	1.42E-07	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	0.00E+00
893	ALL	434188.4	3711761	1.47E-07	0.833YrCar	1.47E-07	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	0.00E+00
894	ALL	434218.4	3711746	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
895	ALL	434241.8	3711752	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
896	ALL	434280.9	3711776	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
897	ALL	434296.5	3711793	1.60E-07	0.833YrCar	1.60E-07	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	0.00E+00
898	ALL	434312.2	3711809	1.59E-07	0.833YrCar	1.59E-07	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	0.00E+00
899	ALL	434327.8	3711826	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
900	ALL	434343.4	3711843	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
901	ALL	434358.3	3711837	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
902	ALL	434357.5	3711814	1.69E-07	0.833YrCar	1.69E-07	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	0.00E+00
903	ALL	434356.7	3711791	1.77E-07	0.833YrCar	1.77E-07	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	0.00E+00
904	ALL	434355.9	3711768	1.85E-07	0.833YrCar	1.85E-07	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	0.00E+00
905	ALL	434355.2	3711745	1.95E-07	0.833YrCar	1.95E-07	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	0.00E+00
906	ALL	434354.4	3711722	2.05E-07	0.833YrCar	2.05E-07	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	0.00E+00
907	ALL	434353.6	3711699	2.15E-07	0.833YrCar	2.15E-07	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	0.00E+00
908	ALL	434352.8	3711676	2.26E-07	0.833YrCar	2.26E-07	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	0.00E+00
909	ALL	434352	3711653	2.38E-07	0.833YrCar	2.38E-07	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	0.00E+00
910	ALL	434330.7	3711636	2.36E-07	0.833YrCar	2.36E-07	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	0.00E+00
911	ALL	434310.2	3711641	2.22E-07	0.833YrCar	2.22E-07	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	0.00E+00
912	ALL	434289.7	3711647	2.09E-07	0.833YrCar	2.09E-07	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	0.00E+00
913	ALL	434262.7	3711669	1.90E-07	0.833YrCar	1.90E-07	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	0.00E+00
914	ALL	434256.2	3711684	1.83E-07	0.833YrCar	1.83E-07	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	0.00E+00
915	ALL	434227.8	3711702	1.69E-07	0.833YrCar	1.69E-07	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	0.00E+00
916	ALL	434205.9	3711703	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
917	ALL	434184	3711705	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
918	ALL	434162.1	3711706	1.50E-07	0.833YrCar	1.50E-07	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	0.00E+00
919	ALL	434127.9	3711690	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
920	ALL	434114.2	3711649	1.49E-07	0.833YrCar	1.49E-07	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	0.00E+00
921	ALL	434112.9	3711627	1.53E-07	0.833YrCar	1.53E-07	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	0.00E+00
922	ALL	434111.6	3711605	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
923	ALL	434099.9	3711567	1.57E-07	0.833YrCar	1.57E-07	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	0.00E+00
924	ALL	434082	3711535	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
925	ALL	434074.5	3711518	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
926	ALL	434083.1	3711485	1.62E-07	0.833YrCar	1.62E-07	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	0.00E+00
927	ALL	434099.3	3711469	1.71E-07	0.833YrCar	1.71E-07	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	0.00E+00
928	ALL	434138.6	3711451	1.93E-07	0.833YrCar	1.93E-07	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	0.00E+00
929	ALL	434161.7	3711448	2.06E-07	0.833YrCar	2.06E-07	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	0.00E+00
930	ALL	434197.6	3711430	2.33E-07	0.833YrCar	2.33E-07	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	0.00E+00
931	ALL	434210.3	3711414	2.48E-07	0.833YrCar	2.48E-07	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	0.00E+00
932	ALL	434200.5	3711395	2.47E-07	0.833YrCar	2.47E-07	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	0.00E+00
933	ALL	434157.7	3711400	2.16E-07	0.833YrCar	2.16E-07	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	0.00E+00
934	ALL	434137.5	3711409	2.02E-07	0.833YrCar	2.02E-07	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	0.00E+00
935	ALL	434117.2	3711417	1.90E-07	0.833YrCar	1.90E-07	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	0.00E+00
936	ALL	434097	3711425	1.79E-07	0.833YrCar	1.79E-07	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	0.00E+00
937	ALL	434076.8	3711433	1.69E-07	0.833YrCar	1.69E-07	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	0.00E+00
938	ALL	434062.6	3711422	1.65E-07	0.833YrCar	1.65E-07	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	0.00E+00

939	ALL	434068.7	3711404	1.69E-07	0.833YrCar	1.69E-07	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	0.00E+00
940	ALL	434074.8	3711385	1.73E-07	0.833YrCar	1.73E-07	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	0.00E+00
941	ALL	434086.3	3711346	1.84E-07	0.833YrCar	1.84E-07	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	0.00E+00
942	ALL	434091.8	3711325	1.90E-07	0.833YrCar	1.90E-07	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	0.00E+00
943	ALL	434097.3	3711305	1.96E-07	0.833YrCar	1.96E-07	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	0.00E+00
944	ALL	434102.8	3711284	2.02E-07	0.833YrCar	2.02E-07	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	0.00E+00
945	ALL	434108.3	3711264	2.08E-07	0.833YrCar	2.08E-07	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	0.00E+00
946	ALL	434127.6	3711225	2.28E-07	0.833YrCar	2.28E-07	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	0.00E+00
947	ALL	434141.5	3711208	2.40E-07	0.833YrCar	2.40E-07	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	0.00E+00
948	ALL	434155.4	3711190	2.54E-07	0.833YrCar	2.54E-07	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	0.00E+00
949	ALL	434148.4	3711166	2.50E-07	0.833YrCar	2.50E-07	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	0.00E+00
950	ALL	434127.6	3711161	2.35E-07	0.833YrCar	2.35E-07	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	0.00E+00
951	ALL	434096.4	3711138	2.16E-07	0.833YrCar	2.16E-07	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	0.00E+00
952	ALL	434086	3711121	2.11E-07	0.833YrCar	2.11E-07	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	0.00E+00
953	ALL	434074.8	3711082	2.08E-07	0.833YrCar	2.08E-07	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	0.00E+00
954	ALL	434073.9	3711060	2.09E-07	0.833YrCar	2.09E-07	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	0.00E+00
955	ALL	434073	3711038	2.10E-07	0.833YrCar	2.10E-07	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	0.00E+00
956	ALL	434079.7	3711000	2.15E-07	0.833YrCar	2.15E-07	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	0.00E+00
957	ALL	434087.2	3710984	2.18E-07	0.833YrCar	2.18E-07	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	0.00E+00
958	ALL	434079.5	3710950	2.12E-07	0.833YrCar	2.12E-07	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	0.00E+00
959	ALL	434064.4	3710932	2.05E-07	0.833YrCar	2.05E-07	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	0.00E+00
960	ALL	434049.2	3710914	1.99E-07	0.833YrCar	1.99E-07	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	0.00E+00
961	ALL	434031.1	3710876	1.85E-07	0.833YrCar	1.85E-07	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	0.00E+00
962	ALL	434028.2	3710856	1.78E-07	0.833YrCar	1.78E-07	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	0.00E+00
963	ALL	434018.4	3710818	1.63E-07	0.833YrCar	1.63E-07	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	0.00E+00
964	ALL	434011.5	3710800	1.56E-07	0.833YrCar	1.56E-07	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	0.00E+00
965	ALL	434004.5	3710782	1.50E-07	0.833YrCar	1.50E-07	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	0.00E+00
966	ALL	434008	3710747	1.37E-07	0.833YrCar	1.37E-07	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	0.00E+00
967	ALL	434018.4	3710729	1.31E-07	0.833YrCar	1.31E-07	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	0.00E+00
968	ALL	434011.5	3710712	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
969	ALL	433994.1	3710712	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
970	ALL	433964.1	3710695	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
971	ALL	433951.4	3710677	1.18E-07	0.833YrCar	1.18E-07	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	0.00E+00
972	ALL	433943	3710636	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00
973	ALL	433947.3	3710593	1.01E-07	0.833YrCar	1.01E-07	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	0.00E+00
974	ALL	433944.7	3710551	9.14E-08	0.833YrCar	9.14E-08	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	0.00E+00
975	ALL	433941.5	3710509	8.32E-08	0.833YrCar	8.32E-08	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	0.00E+00
976	ALL	433941	3710490	8.02E-08	0.833YrCar	8.02E-08	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	0.00E+00
977	ALL	433935.2	3710448	7.39E-08	0.833YrCar	7.39E-08	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	0.00E+00
978	ALL	433930	3710424	7.05E-08	0.833YrCar	7.05E-08	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	0.00E+00
979	ALL	433918.7	3710379	6.54E-08	0.833YrCar	6.54E-08	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	0.00E+00
980	ALL	433912.6	3710358	6.30E-08	0.833YrCar	6.30E-08	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	0.00E+00
981	ALL	433906.6	3710337	6.13E-08	0.833YrCar	6.13E-08	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	0.00E+00
982	ALL	433900.5	3710316	6.03E-08	0.833YrCar	6.03E-08	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	0.00E+00
983	ALL	433894.4	3710294	5.90E-08	0.833YrCar	5.90E-08	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	0.00E+00
984	ALL	433888.4	3710273	5.75E-08	0.833YrCar	5.75E-08	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	0.00E+00
985	ALL	433882.3	3710252	5.58E-08	0.833YrCar	5.58E-08	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	0.00E+00

986	ALL	433852.4	3710233	5.66E-08	0.833YrCar	5.66E-08	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	0.00E+00
987	ALL	433828.5	3710236	5.84E-08	0.833YrCar	5.84E-08	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	0.00E+00
988	ALL	433804.7	3710239	6.01E-08	0.833YrCar	6.01E-08	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	0.00E+00
989	ALL	433780.9	3710242	6.15E-08	0.833YrCar	6.15E-08	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	0.00E+00
990	ALL	433757	3710245	6.31E-08	0.833YrCar	6.31E-08	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	0.00E+00
991	ALL	433733.2	3710248	6.45E-08	0.833YrCar	6.45E-08	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	0.00E+00
992	ALL	433709.3	3710250	6.53E-08	0.833YrCar	6.53E-08	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	0.00E+00
993	ALL	433690	3710278	6.87E-08	0.833YrCar	6.87E-08	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	0.00E+00
994	ALL	433694.6	3710302	7.14E-08	0.833YrCar	7.14E-08	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	0.00E+00
995	ALL	433699.1	3710327	7.43E-08	0.833YrCar	7.43E-08	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	0.00E+00
996	ALL	433703.6	3710351	7.73E-08	0.833YrCar	7.73E-08	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	0.00E+00
997	ALL	433708.2	3710376	8.07E-08	0.833YrCar	8.07E-08	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	0.00E+00
998	ALL	433712.7	3710400	8.41E-08	0.833YrCar	8.41E-08	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	0.00E+00
999	ALL	433717.2	3710425	8.76E-08	0.833YrCar	8.76E-08	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	0.00E+00
1000	ALL	433721.8	3710450	9.11E-08	0.833YrCar	9.11E-08	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	0.00E+00
1001	ALL	433726.3	3710474	9.44E-08	0.833YrCar	9.44E-08	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	0.00E+00
1002	ALL	433730.9	3710499	9.82E-08	0.833YrCar	9.82E-08	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	0.00E+00
1003	ALL	433735.4	3710523	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
1004	ALL	433739.9	3710548	1.06E-07	0.833YrCar	1.06E-07	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	0.00E+00
1005	ALL	433749.8	3710594	1.13E-07	0.833YrCar	1.13E-07	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	0.00E+00
1006	ALL	433755.2	3710616	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
1007	ALL	433760.6	3710638	1.19E-07	0.833YrCar	1.19E-07	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	0.00E+00
1008	ALL	433766	3710660	1.23E-07	0.833YrCar	1.23E-07	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	0.00E+00
1009	ALL	433771.4	3710682	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
1010	ALL	433776.8	3710704	1.28E-07	0.833YrCar	1.28E-07	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	0.00E+00
1011	ALL	433782.2	3710726	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
1012	ALL	433787.6	3710748	1.32E-07	0.833YrCar	1.32E-07	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	0.00E+00
1013	ALL	433787.8	3710794	1.36E-07	0.833YrCar	1.36E-07	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	0.00E+00
1014	ALL	433782.6	3710818	1.40E-07	0.833YrCar	1.40E-07	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	0.00E+00
1015	ALL	433777.4	3710843	1.41E-07	0.833YrCar	1.41E-07	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	0.00E+00
1016	ALL	433790.1	3710874	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
1017	ALL	433808	3710882	1.50E-07	0.833YrCar	1.50E-07	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	0.00E+00
1018	ALL	433823.8	3710910	1.54E-07	0.833YrCar	1.54E-07	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	0.00E+00
1019	ALL	433821.6	3710930	1.50E-07	0.833YrCar	1.50E-07	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	0.00E+00
1020	ALL	433819.4	3710951	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
1021	ALL	433801.2	3710983	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00
1022	ALL	433785.2	3710994	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
1023	ALL	433769.2	3711006	1.26E-07	0.833YrCar	1.26E-07	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	0.00E+00
1024	ALL	433752.8	3711041	1.20E-07	0.833YrCar	1.20E-07	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	0.00E+00
1025	ALL	433752.5	3711063	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
1026	ALL	433752.3	3711086	1.14E-07	0.833YrCar	1.14E-07	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	0.00E+00
1027	ALL	433752	3711109	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
1028	ALL	433751.7	3711132	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
1029	ALL	433764.1	3711172	1.10E-07	0.833YrCar	1.10E-07	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	0.00E+00
1030	ALL	433776.8	3711189	1.08E-07	0.833YrCar	1.08E-07	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	0.00E+00
1031	ALL	433789.5	3711206	1.09E-07	0.833YrCar	1.09E-07	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	0.00E+00
1032	ALL	433802.3	3711223	1.11E-07	0.833YrCar	1.11E-07	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	0.00E+00

1033	ALL	433815	3711240	1.14E-07	0.833YrCar	1.14E-07	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	0.00E+00
1034	ALL	433842.2	3711271	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
1035	ALL	433856.8	3711286	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
1036	ALL	433871.4	3711300	1.17E-07	0.833YrCar	1.17E-07	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	0.00E+00
1037	ALL	433885.9	3711314	1.20E-07	0.833YrCar	1.20E-07	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	0.00E+00
1038	ALL	433923.5	3711335	1.28E-07	0.833YrCar	1.28E-07	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	0.00E+00
1039	ALL	433946.5	3711342	1.34E-07	0.833YrCar	1.34E-07	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	0.00E+00
1040	ALL	433969.4	3711349	1.40E-07	0.833YrCar	1.40E-07	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	0.00E+00
1041	ALL	433995	3711377	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
1042	ALL	433997.6	3711398	1.46E-07	0.833YrCar	1.46E-07	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	0.00E+00
1043	ALL	434000.2	3711418	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
1044	ALL	434002.8	3711439	1.45E-07	0.833YrCar	1.45E-07	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	0.00E+00
1045	ALL	434005.4	3711460	1.44E-07	0.833YrCar	1.44E-07	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	0.00E+00
1046	ALL	433988.1	3711492	1.36E-07	0.833YrCar	1.36E-07	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	0.00E+00
1047	ALL	433968.1	3711504	1.32E-07	0.833YrCar	1.32E-07	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	0.00E+00
1048	ALL	433948.2	3711515	1.30E-07	0.833YrCar	1.30E-07	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	0.00E+00
1049	ALL	433928.2	3711527	1.27E-07	0.833YrCar	1.27E-07	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	0.00E+00
1050	ALL	433908.3	3711539	1.25E-07	0.833YrCar	1.25E-07	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	0.00E+00
1051	ALL	433882.1	3711572	1.22E-07	0.833YrCar	1.22E-07	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	0.00E+00
1052	ALL	433875.8	3711595	1.20E-07	0.833YrCar	1.20E-07	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	0.00E+00
1053	ALL	433869.5	3711617	1.16E-07	0.833YrCar	1.16E-07	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	0.00E+00
1054	ALL	433863.2	3711639	1.12E-07	0.833YrCar	1.12E-07	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	0.00E+00
1055	ALL	433856.9	3711662	1.09E-07	0.833YrCar	1.09E-07	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	0.00E+00
1056	ALL	433850.7	3711684	1.05E-07	0.833YrCar	1.05E-07	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	0.00E+00
1057	ALL	433844.4	3711706	1.02E-07	0.833YrCar	1.02E-07	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	0.00E+00
1058	ALL	433815.5	3711731	9.62E-08	0.833YrCar	9.62E-08	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	0.00E+00
1059	ALL	433793	3711733	9.32E-08	0.833YrCar	9.32E-08	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	0.00E+00
1060	ALL	433770.5	3711735	9.01E-08	0.833YrCar	9.01E-08	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	0.00E+00
1061	ALL	433734.1	3711751	8.52E-08	0.833YrCar	8.52E-08	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	0.00E+00
1062	ALL	433735.8	3711782	8.45E-08	0.833YrCar	8.45E-08	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	0.00E+00
1063	ALL	433751.4	3711799	8.54E-08	0.833YrCar	8.54E-08	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	0.00E+00
1064	ALL	433767	3711816	8.67E-08	0.833YrCar	8.67E-08	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	0.00E+00
1065	ALL	433785.6	3711855	8.71E-08	0.833YrCar	8.71E-08	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	0.00E+00
1066	ALL	433788.7	3711877	8.60E-08	0.833YrCar	8.60E-08	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	0.00E+00
1067	ALL	433791.7	3711899	8.54E-08	0.833YrCar	8.54E-08	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	0.00E+00
1068	ALL	433789.3	3711945	8.35E-08	0.833YrCar	8.35E-08	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	0.00E+00
1069	ALL	433783.8	3711968	8.32E-08	0.833YrCar	8.32E-08	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	0.00E+00
1070	ALL	433778.4	3711992	8.24E-08	0.833YrCar	8.24E-08	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	0.00E+00
1071	ALL	433772.9	3712015	8.10E-08	0.833YrCar	8.10E-08	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	0.00E+00
1072	ALL	433767.5	3712039	7.93E-08	0.833YrCar	7.93E-08	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	0.00E+00
1073	ALL	433762	3712062	7.78E-08	0.833YrCar	7.78E-08	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	0.00E+00
1074	ALL	433735.8	3712075	7.62E-08	0.833YrCar	7.62E-08	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	0.00E+00
1075	ALL	433715	3712065	7.68E-08	0.833YrCar	7.68E-08	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	0.00E+00
1076	ALL	433694.2	3712055	7.71E-08	0.833YrCar	7.71E-08	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	0.00E+00
1077	ALL	433673.4	3712044	7.72E-08	0.833YrCar	7.72E-08	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	0.00E+00
1078	ALL	433652.6	3712034	7.68E-08	0.833YrCar	7.68E-08	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	0.00E+00
1079	ALL	433631.8	3712023	7.61E-08	0.833YrCar	7.61E-08	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	0.00E+00

1080	ALL		433611	3712013	7.51E-08	0.833YrCar	7.51E-08	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	0.00E+00	0.00E+00	0.00E+00
1081	ALL		433589	3712023	7.31E-08	0.833YrCar	7.31E-08	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	0.00E+00	0.00E+00	0.00E+00
1082	ALL		433587.8	3712044	7.20E-08	0.833YrCar	7.20E-08	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	0.00E+00	0.00E+00	0.00E+00
1083	ALL		433607	3712073	7.23E-08	0.833YrCar	7.23E-08	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	0.00E+00	0.00E+00	0.00E+00
1084	ALL		433627.3	3712081	7.32E-08	0.833YrCar	7.32E-08	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	0.00E+00	0.00E+00	0.00E+00
1085	ALL		433647.6	3712089	7.40E-08	0.833YrCar	7.40E-08	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	0.00E+00	0.00E+00	0.00E+00
1086	ALL		433667.9	3712097	7.47E-08	0.833YrCar	7.47E-08	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	0.00E+00	0.00E+00	0.00E+00
1087	ALL		433688.2	3712105	7.46E-08	0.833YrCar	7.46E-08	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	0.00E+00	0.00E+00	0.00E+00
1088	ALL		433708.5	3712113	7.33E-08	0.833YrCar	7.33E-08	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	0.00E+00	0.00E+00	0.00E+00
1089	ALL		433729.7	3712143	7.16E-08	0.833YrCar	7.16E-08	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	0.00E+00	0.00E+00	0.00E+00
1090	ALL		433730.6	3712166	7.05E-08	0.833YrCar	7.05E-08	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	0.00E+00	0.00E+00	0.00E+00
1091	ALL		433731.5	3712188	6.96E-08	0.833YrCar	6.96E-08	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	0.00E+00	0.00E+00	0.00E+00
1092	ALL		433746.2	3712225	6.88E-08	0.833YrCar	6.88E-08	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	0.00E+00	0.00E+00	0.00E+00
1093	ALL		433760.1	3712238	6.92E-08	0.833YrCar	6.92E-08	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	0.00E+00	0.00E+00	0.00E+00
1094	ALL		433773.9	3712252	6.94E-08	0.833YrCar	6.94E-08	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	0.00E+00	0.00E+00	0.00E+00
1095	ALL		433810.3	3712268	7.07E-08	0.833YrCar	7.07E-08	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	0.00E+00	0.00E+00	0.00E+00
1096	ALL		433832.9	3712271	7.19E-08	0.833YrCar	7.19E-08	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	0.00E+00	0.00E+00	0.00E+00
1097	ALL		433855.4	3712273	7.32E-08	0.833YrCar	7.32E-08	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	0.00E+00	0.00E+00	0.00E+00
1098	ALL		433876.8	3712293	7.37E-08	0.833YrCar	7.37E-08	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	0.00E+00	0.00E+00	0.00E+00
1099	ALL		433875.7	3712312	7.22E-08	0.833YrCar	7.22E-08	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	0.00E+00	0.00E+00	0.00E+00
1100	ALL		433888.2	3712350	6.95E-08	0.833YrCar	6.95E-08	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	0.00E+00	0.00E+00	0.00E+00
1101	ALL		433901.9	3712369	6.83E-08	0.833YrCar	6.83E-08	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	0.00E+00	0.00E+00	0.00E+00
1102	ALL		433915.5	3712388	6.78E-08	0.833YrCar	6.78E-08	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	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v22118 7/30/2024 11:54:52 AM - Chronic Risk - Input File: C:\Users\apoll\OneDrive - Dudek\Desktop\HARP2\HARP\Salinity MGMT\SALINITY MGMT HARP\hra\Initial HRAHRAInput.hra

REC	GRP	NETID	X	Y	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL	MAXHI
1	ALL		433702.3	3710264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.89E-05
2	ALL		433752.3	3710264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
3	ALL		433802.3	3710264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05
4	ALL		433852.3	3710264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.74E-05
5	ALL		433702.3	3710314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
6	ALL		433752.3	3710314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
7	ALL		433802.3	3710314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.65E-05
8	ALL		433852.3	3710314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.35E-05
9	ALL		433752.3	3710364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
10	ALL		433802.3	3710364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
11	ALL		433852.3	3710364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.84E-05
12	ALL		433902.3	3710364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
13	ALL		433752.3	3710414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
14	ALL		433802.3	3710414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
15	ALL		433852.3	3710414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
16	ALL		433902.3	3710414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.36E-05
17	ALL		433752.3	3710464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
18	ALL		433802.3	3710464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
19	ALL		433852.3	3710464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
20	ALL		433902.3	3710464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
21	ALL		433752.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
22	ALL		433802.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
23	ALL		433852.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
24	ALL		433902.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
25	ALL		434452.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
26	ALL		434502.3	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
27	ALL		433752.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
28	ALL		433802.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
29	ALL		433852.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
30	ALL		433902.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
31	ALL		434452.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
32	ALL		434502.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
33	ALL		434552.3	3710564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
34	ALL		433802.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
35	ALL		433852.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
36	ALL		433902.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
37	ALL		434452.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
38	ALL		434502.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
39	ALL		434552.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
40	ALL		434602.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
41	ALL		434652.3	3710614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
42	ALL		433802.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
43	ALL		433852.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
44	ALL		433902.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
45	ALL		434502.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
46	ALL		434552.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
47	ALL		434602.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
48	ALL		434652.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
49	ALL		434702.3	3710664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
50	ALL		433802.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04

51	ALL	433852.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
52	ALL	433902.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
53	ALL	433952.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
54	ALL	434002.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
55	ALL	434502.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
56	ALL	434552.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
57	ALL	434602.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
58	ALL	434652.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
59	ALL	434702.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
60	ALL	434752.3	3710714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
61	ALL	433802.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
62	ALL	433852.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
63	ALL	433902.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
64	ALL	433952.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
65	ALL	434552.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
66	ALL	434602.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
67	ALL	434652.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
68	ALL	434702.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
69	ALL	434752.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
70	ALL	434802.3	3710764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
71	ALL	433802.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
72	ALL	433852.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
73	ALL	433902.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
74	ALL	433952.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-04
75	ALL	434002.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
76	ALL	434552.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
77	ALL	434602.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
78	ALL	434652.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
79	ALL	434702.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
80	ALL	434752.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.54E-04
81	ALL	434802.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
82	ALL	434852.3	3710814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
83	ALL	433802.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
84	ALL	433852.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
85	ALL	433902.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
86	ALL	433952.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
87	ALL	434002.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
88	ALL	434602.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
89	ALL	434652.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
90	ALL	434702.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
91	ALL	434752.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
92	ALL	434802.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
93	ALL	434852.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.07E-04
94	ALL	434902.3	3710864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
95	ALL	433852.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
96	ALL	433902.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
97	ALL	433952.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
98	ALL	434002.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.48E-04
99	ALL	434652.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
100	ALL	434702.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
101	ALL	434752.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
102	ALL	434802.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
103	ALL	434852.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
104	ALL	434902.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.33E-04
105	ALL	434952.3	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E-04
106	ALL	433852.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
107	ALL	433902.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
108	ALL	433952.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
109	ALL	434002.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
110	ALL	434052.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
111	ALL	434652.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
112	ALL	434702.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
113	ALL	434752.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.85E-04
114	ALL	434802.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.79E-04
115	ALL	434852.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-04
116	ALL	434902.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
117	ALL	434952.3	3710964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.37E-04
118	ALL	433802.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
119	ALL	433852.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
120	ALL	433902.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
121	ALL	433952.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
122	ALL	434002.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
123	ALL	434052.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04
124	ALL	434702.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
125	ALL	434752.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.81E-04
126	ALL	434802.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.48E-04
127	ALL	434852.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
128	ALL	434902.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.64E-04
129	ALL	434952.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
130	ALL	435002.3	3711014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
131	ALL	433802.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
132	ALL	433852.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
133	ALL	433902.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
134	ALL	433952.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
135	ALL	434002.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
136	ALL	434052.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
137	ALL	434752.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-04
138	ALL	434802.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.34E-04
139	ALL	434852.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-04
140	ALL	434902.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
141	ALL	434952.3	3711064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.34E-04
142	ALL	433752.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
143	ALL	433802.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
144	ALL	433852.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
145	ALL	433902.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
146	ALL	433952.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
147	ALL	434002.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
148	ALL	434052.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
149	ALL	434752.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-04
150	ALL	434802.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.38E-04
151	ALL	434852.3	3711114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04
152	ALL	433802.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
153	ALL	433852.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
154	ALL	433902.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04

155	ALL	433952.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04
156	ALL	434002.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
157	ALL	434052.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
158	ALL	434102.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
159	ALL	434752.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-04
160	ALL	435052.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
161	ALL	435102.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-04
162	ALL	433802.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
163	ALL	433852.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
164	ALL	433902.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
165	ALL	433952.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
166	ALL	434002.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
167	ALL	434052.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
168	ALL	434102.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.82E-04
169	ALL	434952.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
170	ALL	435002.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
171	ALL	435052.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
172	ALL	435102.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
173	ALL	435152.3	3711214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
174	ALL	433852.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
175	ALL	433902.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
176	ALL	433952.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
177	ALL	434002.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
178	ALL	434052.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
179	ALL	434102.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
180	ALL	434902.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-04
181	ALL	434952.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
182	ALL	435002.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
183	ALL	435052.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
184	ALL	435102.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
185	ALL	435152.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
186	ALL	435202.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
187	ALL	433902.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
188	ALL	433952.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
189	ALL	434002.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
190	ALL	434052.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
191	ALL	434852.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03
192	ALL	434902.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-04
193	ALL	434952.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.58E-04
194	ALL	435002.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
195	ALL	435052.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
196	ALL	435102.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
197	ALL	435152.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
198	ALL	435202.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
199	ALL	435252.3	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
200	ALL	434002.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
201	ALL	434052.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
202	ALL	434852.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-03
203	ALL	434902.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.79E-04
204	ALL	434952.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.22E-04
205	ALL	435002.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.93E-04
206	ALL	435052.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
207	ALL	435102.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
208	ALL	435152.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
209	ALL	435202.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
210	ALL	435252.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
211	ALL	435302.3	3711364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
212	ALL	434002.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
213	ALL	434052.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.14E-04
214	ALL	434152.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
215	ALL	434202.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.22E-04
216	ALL	434902.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.53E-04
217	ALL	434952.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.58E-04
218	ALL	435002.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04
219	ALL	435052.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
220	ALL	435102.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
221	ALL	435152.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
222	ALL	435202.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
223	ALL	435252.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
224	ALL	435302.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
225	ALL	435352.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
226	ALL	434052.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
227	ALL	434102.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
228	ALL	434852.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
229	ALL	434902.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.38E-04
230	ALL	434952.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.00E-04
231	ALL	435002.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.11E-04
232	ALL	435052.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
233	ALL	435102.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
234	ALL	435152.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
235	ALL	435202.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
236	ALL	435252.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
237	ALL	435302.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
238	ALL	435352.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
239	ALL	435402.3	3711464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
240	ALL	433952.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
241	ALL	434002.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
242	ALL	434052.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
243	ALL	434852.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.17E-04
244	ALL	434902.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.02E-04
245	ALL	434952.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-04
246	ALL	435002.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.18E-04
247	ALL	435052.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
248	ALL	435102.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
249	ALL	435152.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
250	ALL	435202.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
251	ALL	435252.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
252	ALL	435302.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
253	ALL	435352.3	3711514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
254	ALL	433902.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
255	ALL	433952.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
256	ALL	434002.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
257	ALL	434052.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
258	ALL	434852.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.42E-04

259	ALL	434902.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
260	ALL	434952.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.96E-04
261	ALL	435002.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
262	ALL	435052.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
263	ALL	435102.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
264	ALL	435152.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
265	ALL	435202.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
266	ALL	435252.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
267	ALL	435302.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
268	ALL	435352.3	3711564	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
269	ALL	433902.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
270	ALL	433952.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
271	ALL	434002.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
272	ALL	434052.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
273	ALL	434102.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
274	ALL	434852.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.91E-04
275	ALL	434902.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
276	ALL	434952.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E-04
277	ALL	435002.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
278	ALL	435052.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
279	ALL	435102.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
280	ALL	435152.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
281	ALL	435202.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
282	ALL	435252.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
283	ALL	435302.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
284	ALL	435352.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
285	ALL	435402.3	3711614	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.85E-05
286	ALL	433902.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
287	ALL	433952.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
288	ALL	434002.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.71E-04
289	ALL	434052.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
290	ALL	434102.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
291	ALL	434302.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
292	ALL	434352.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.09E-04
293	ALL	434852.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
294	ALL	434902.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
295	ALL	434952.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
296	ALL	435002.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
297	ALL	435052.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
298	ALL	435102.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
299	ALL	435152.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
300	ALL	435202.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
301	ALL	435252.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
302	ALL	435302.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
303	ALL	435352.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05
304	ALL	435402.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.66E-05
305	ALL	435452.3	3711664	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.63E-05
306	ALL	433852.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
307	ALL	433902.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
308	ALL	433952.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
309	ALL	434002.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
310	ALL	434052.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
311	ALL	434102.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
312	ALL	434152.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
313	ALL	434202.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
314	ALL	434252.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-04
315	ALL	434302.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
316	ALL	434352.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
317	ALL	434902.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
318	ALL	434952.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
319	ALL	435002.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
320	ALL	435052.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
321	ALL	435102.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
322	ALL	435152.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
323	ALL	435202.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
324	ALL	435252.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
325	ALL	435302.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
326	ALL	435352.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.42E-05
327	ALL	435402.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
328	ALL	435452.3	3711714	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-05
329	ALL	433752.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
330	ALL	433802.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
331	ALL	433852.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
332	ALL	433902.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
333	ALL	433952.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
334	ALL	434002.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
335	ALL	434052.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
336	ALL	434102.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
337	ALL	434152.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
338	ALL	434302.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
339	ALL	434352.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
340	ALL	434902.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
341	ALL	434952.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
342	ALL	435002.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
343	ALL	435052.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
344	ALL	435102.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
345	ALL	435152.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
346	ALL	435202.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
347	ALL	435252.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
348	ALL	435302.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
349	ALL	435352.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
350	ALL	435402.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
351	ALL	435452.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.71E-05
352	ALL	435502.3	3711764	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-05
353	ALL	433802.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
354	ALL	433852.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
355	ALL	433902.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
356	ALL	433952.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
357	ALL	434002.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
358	ALL	434052.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
359	ALL	434102.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
360	ALL	434152.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
361	ALL	434352.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.22E-04
362	ALL	434952.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04

363	ALL	435002.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
364	ALL	435052.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
365	ALL	435102.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
366	ALL	435152.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
367	ALL	435202.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
368	ALL	435252.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
369	ALL	435302.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
370	ALL	435352.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05
371	ALL	435402.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05
372	ALL	435452.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05
373	ALL	435502.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-05
374	ALL	435552.3	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.96E-05
375	ALL	433802.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
376	ALL	433852.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
377	ALL	433902.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
378	ALL	433952.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
379	ALL	434002.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
380	ALL	434052.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
381	ALL	434102.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
382	ALL	434152.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
383	ALL	434902.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
384	ALL	434952.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
385	ALL	435002.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
386	ALL	435052.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
387	ALL	435102.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
388	ALL	435152.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
389	ALL	435202.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
390	ALL	435252.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.96E-05
391	ALL	435302.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05
392	ALL	435352.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.21E-05
393	ALL	435402.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.39E-05
394	ALL	435452.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.70E-05
395	ALL	435502.3	3711864	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.26E-05
396	ALL	433802.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
397	ALL	433852.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
398	ALL	433902.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
399	ALL	433952.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
400	ALL	434002.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
401	ALL	434052.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
402	ALL	434102.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-04
403	ALL	434152.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
404	ALL	434902.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
405	ALL	434952.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
406	ALL	435002.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
407	ALL	435052.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-04
408	ALL	435102.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
409	ALL	435152.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
410	ALL	435202.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
411	ALL	435252.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
412	ALL	435302.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
413	ALL	435352.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.57E-05
414	ALL	435402.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.00E-05

415	ALL	435452.3	3711914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.63E-05
416	ALL	433802.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
417	ALL	433852.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
418	ALL	433902.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
419	ALL	433952.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
420	ALL	434002.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
421	ALL	434052.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
422	ALL	434102.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
423	ALL	434902.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
424	ALL	434952.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
425	ALL	435002.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
426	ALL	435052.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04
427	ALL	435102.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
428	ALL	435152.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-05
429	ALL	435202.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
430	ALL	435252.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
431	ALL	435302.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.84E-05
432	ALL	435352.3	3711964	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.14E-05
433	ALL	433602.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
434	ALL	433802.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
435	ALL	433852.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
436	ALL	433902.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
437	ALL	433952.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
438	ALL	434002.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
439	ALL	434052.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
440	ALL	434102.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
441	ALL	434902.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04
442	ALL	434952.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
443	ALL	435002.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
444	ALL	435052.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
445	ALL	435102.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
446	ALL	435152.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
447	ALL	435202.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
448	ALL	435252.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.82E-05
449	ALL	435302.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.73E-05
450	ALL	435352.3	3712014	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.96E-05
451	ALL	433602.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
452	ALL	433652.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.97E-05
453	ALL	433702.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
454	ALL	433802.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
455	ALL	433852.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
456	ALL	433902.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
457	ALL	433952.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
458	ALL	434002.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
459	ALL	434052.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
460	ALL	434852.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.42E-04
461	ALL	434902.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
462	ALL	434952.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
463	ALL	435002.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
464	ALL	435052.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
465	ALL	435102.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
466	ALL	435152.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.90E-05

467	ALL	435202.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
468	ALL	435252.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.67E-05
469	ALL	435302.3	3712064	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.58E-05
470	ALL	433752.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.89E-05
471	ALL	433802.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
472	ALL	433852.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
473	ALL	433902.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
474	ALL	433952.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
475	ALL	434002.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
476	ALL	434052.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
477	ALL	434852.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-04
478	ALL	434902.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
479	ALL	434952.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
480	ALL	435002.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-04
481	ALL	435052.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
482	ALL	435102.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
483	ALL	435152.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.93E-05
484	ALL	435202.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-05
485	ALL	435252.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.75E-05
486	ALL	435302.3	3712114	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
487	ALL	433752.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.53E-05
488	ALL	433802.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
489	ALL	433852.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.76E-05
490	ALL	433902.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
491	ALL	433952.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
492	ALL	434002.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
493	ALL	434052.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
494	ALL	434852.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
495	ALL	434902.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
496	ALL	434952.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.77E-04
497	ALL	435002.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-04
498	ALL	435052.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
499	ALL	435102.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
500	ALL	435152.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.66E-05
501	ALL	435202.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.60E-05
502	ALL	435252.3	3712164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.04E-05
503	ALL	433752.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.22E-05
504	ALL	433802.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.56E-05
505	ALL	433852.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.92E-05
506	ALL	433902.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
507	ALL	433952.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
508	ALL	434002.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
509	ALL	434052.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
510	ALL	434902.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
511	ALL	434952.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
512	ALL	435002.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
513	ALL	435052.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
514	ALL	435102.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
515	ALL	435152.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
516	ALL	435202.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
517	ALL	435252.3	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
518	ALL	433802.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.33E-05

519	ALL	433852.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
520	ALL	433902.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
521	ALL	433952.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
522	ALL	434002.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
523	ALL	434052.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
524	ALL	434952.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
525	ALL	435002.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
526	ALL	435052.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
527	ALL	435102.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
528	ALL	435152.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
529	ALL	435202.3	3712264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05
530	ALL	433902.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.70E-05
531	ALL	433952.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.61E-05
532	ALL	434002.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
533	ALL	434052.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
534	ALL	435002.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
535	ALL	435052.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
536	ALL	435102.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
537	ALL	435152.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
538	ALL	435202.3	3712314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05
539	ALL	433902.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.13E-05
540	ALL	433952.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
541	ALL	434002.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-05
542	ALL	435052.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
543	ALL	435102.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
544	ALL	435152.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.81E-05
545	ALL	435202.3	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.97E-05
546	ALL	435102.3	3712414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
547	ALL	435152.3	3712414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05
548	ALL	435202.3	3712414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.71E-05
549	ALL	435152.3	3712464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.26E-05
550	ALL	435202.3	3712464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.54E-05
551	ALL	434741.1	3711168	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-03
552	ALL	434716.3	3711074	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.82E-04
553	ALL	434678.2	3711012	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.87E-04
554	ALL	434657.8	3710980	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.98E-04
555	ALL	434615.3	3710921	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-04
556	ALL	434571.5	3710874	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
557	ALL	434560.5	3710848	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
558	ALL	434528.6	3710778	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
559	ALL	434522.5	3710726	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
560	ALL	434488.1	3710709	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
561	ALL	434479.5	3710678	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
562	ALL	434470.9	3710646	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.18E-04
563	ALL	434423.1	3710596	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
564	ALL	434405.9	3710553	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.27E-04
565	ALL	434413.3	3710532	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
566	ALL	434456.2	3710461	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
567	ALL	434606.1	3710569	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.43E-04
568	ALL	434690	3710617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04
569	ALL	434797.9	3710732	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
570	ALL	434889.8	3710824	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04

571	ALL	435035.7	3711006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.98E-04
572	ALL	434959.7	3711068	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04
573	ALL	434833.8	3711150	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.15E-04
574	ALL	435104.5	3711163	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
575	ALL	435039.5	3711149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
576	ALL	434986.1	3711185	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
577	ALL	434937	3711227	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-04
578	ALL	434874.9	3711266	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
579	ALL	434831.6	3711306	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03
580	ALL	434801.3	3711357	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03
581	ALL	434857.6	3711403	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-03
582	ALL	434818.6	3711491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-04
583	ALL	434804.2	3711580	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.47E-04
584	ALL	434838.8	3711689	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.51E-04
585	ALL	434882.1	3711759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.57E-04
586	ALL	434926.9	3711800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
587	ALL	434880.7	3711850	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04
588	ALL	434872	3712012	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.34E-04
589	ALL	434807.1	3712129	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.28E-04
590	ALL	434822.9	3712172	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
591	ALL	434892.9	3712227	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
592	ALL	434967.7	3712292	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
593	ALL	435045.8	3712382	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
594	ALL	435112	3712464	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.85E-05
595	ALL	435173.2	3712489	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.73E-05
596	ALL	435227.5	3712494	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.93E-05
597	ALL	435227.5	3712340	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.72E-05
598	ALL	435244.5	3712229	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05
599	ALL	435292.1	3712141	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.31E-05
600	ALL	435319.3	3712105	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.25E-05
601	ALL	435368.5	3711996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-05
602	ALL	435560.4	3711808	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.93E-05
603	ALL	435563.8	3711782	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.84E-05
604	ALL	435516.3	3711743	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.44E-05
605	ALL	435458.5	3711667	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.51E-05
606	ALL	435385.5	3711565	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
607	ALL	435361.7	3711551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
608	ALL	435431.4	3711483	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
609	ALL	435354.9	3711378	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
610	ALL	435213.9	3711259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
611	ALL	435147.7	3711185	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
612	ALL	433929.2	3712407	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.05E-05
613	ALL	434034.7	3712360	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.69E-05
614	ALL	434081.6	3712259	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
615	ALL	434097.3	3712149	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
616	ALL	434097.3	3712028	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
617	ALL	434155.9	3711919	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
618	ALL	434175.4	3711806	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
619	ALL	434194.9	3711739	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-04
620	ALL	434265.3	3711759	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
621	ALL	434359.1	3711860	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04
622	ALL	434351.2	3711630	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.35E-04

623	ALL	434269.2	3711653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
624	ALL	434249.6	3711700	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
625	ALL	434140.2	3711708	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
626	ALL	434115.5	3711671	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
627	ALL	434110.3	3711583	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E-04
628	ALL	434089.5	3711552	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
629	ALL	434067	3711502	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
630	ALL	434115.5	3711453	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
631	ALL	434184.9	3711446	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.93E-04
632	ALL	434223	3711398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
633	ALL	434177.9	3711392	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
634	ALL	434056.6	3711441	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
635	ALL	434080.8	3711366	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
636	ALL	434113.8	3711243	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
637	ALL	434169.3	3711172	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.55E-04
638	ALL	434106.8	3711155	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.94E-04
639	ALL	434075.6	3711105	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
640	ALL	434072.2	3711016	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.80E-04
641	ALL	434094.7	3710968	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.92E-04
642	ALL	434034	3710896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04
643	ALL	434025.3	3710836	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.26E-04
644	ALL	433997.6	3710765	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
645	ALL	434028.8	3710711	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
646	ALL	433976.8	3710713	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
647	ALL	433938.6	3710659	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
648	ALL	433947.3	3710612	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
649	ALL	433947.3	3710574	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
650	ALL	433942.1	3710527	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
651	ALL	433940.4	3710472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
652	ALL	433924.8	3710401	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.99E-05
653	ALL	433876.2	3710231	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.35E-05
654	ALL	433685.5	3710253	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.83E-05
655	ALL	433744.5	3710572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
656	ALL	433793	3710770	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
657	ALL	433772.2	3710867	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
658	ALL	433825.9	3710890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.06E-04
659	ALL	433817.3	3710971	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-04
660	ALL	433753.1	3711018	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
661	ALL	433751.4	3711155	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-04
662	ALL	433827.7	3711257	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
663	ALL	433900.5	3711328	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
664	ALL	433992.4	3711356	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
665	ALL	434008	3711481	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-04
666	ALL	433888.4	3711550	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
667	ALL	433838.1	3711729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
668	ALL	433747.9	3711737	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
669	ALL	433720.2	3711765	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
670	ALL	433782.6	3711833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
671	ALL	433794.7	3711921	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
672	ALL	433756.6	3712086	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
673	ALL	433590.1	3712003	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.86E-05
674	ALL	433586.7	3712065	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.48E-05

675	ALL	433728.9	3712121	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.68E-05
676	ALL	433732.3	3712211	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.20E-05
677	ALL	433787.8	3712266	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
678	ALL	433878	3712275	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.90E-05
679	ALL	433874.5	3712330	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.42E-05
680	ALL	434734.9	3711145	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.44E-04
681	ALL	434728.7	3711121	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-04
682	ALL	434722.5	3711098	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.65E-04
683	ALL	434703.6	3711053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-04
684	ALL	434690.9	3711032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.54E-04
685	ALL	434668	3710996	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04
686	ALL	434643.6	3710960	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.52E-04
687	ALL	434629.4	3710941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
688	ALL	434600.7	3710905	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.63E-04
689	ALL	434586.1	3710890	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
690	ALL	434566	3710861	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.21E-04
691	ALL	434552.5	3710831	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.97E-04
692	ALL	434544.6	3710813	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.88E-04
693	ALL	434536.6	3710796	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
694	ALL	434526.6	3710761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
695	ALL	434524.5	3710743	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-04
696	ALL	434505.3	3710717	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
697	ALL	434483.8	3710693	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.33E-04
698	ALL	434475.2	3710662	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
699	ALL	434455	3710629	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
700	ALL	434439	3710612	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
701	ALL	434414.5	3710574	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
702	ALL	434424	3710514	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
703	ALL	434434.7	3710496	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
704	ALL	434445.5	3710478	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
705	ALL	434474.9	3710474	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
706	ALL	434493.7	3710488	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
707	ALL	434512.4	3710501	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-04
708	ALL	434531.1	3710515	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
709	ALL	434549.9	3710528	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
710	ALL	434568.6	3710542	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
711	ALL	434587.3	3710555	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
712	ALL	434627	3710581	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
713	ALL	434648	3710593	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-04
714	ALL	434669	3710605	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
715	ALL	434705.4	3710633	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.83E-04
716	ALL	434720.8	3710650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
717	ALL	434736.2	3710666	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
718	ALL	434751.6	3710683	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
719	ALL	434767	3710699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
720	ALL	434782.5	3710716	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
721	ALL	434813.2	3710748	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-04
722	ALL	434828.5	3710763	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
723	ALL	434843.8	3710778	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.83E-04
724	ALL	434859.1	3710794	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.91E-04
725	ALL	434874.5	3710809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
726	ALL	434904.4	3710843	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-04
727	ALL	434919	3710861	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.25E-04
728	ALL	434933.5	3710879	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
729	ALL	434948.1	3710897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
730	ALL	434962.7	3710915	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.31E-04
731	ALL	434977.3	3710933	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E-04
732	ALL	434991.9	3710952	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.21E-04
733	ALL	435006.5	3710970	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
734	ALL	435021.1	3710988	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04
735	ALL	435016.7	3711022	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-04
736	ALL	434997.7	3711037	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
737	ALL	434978.7	3711053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.13E-04
738	ALL	434941.7	3711080	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.49E-04
739	ALL	434923.8	3711092	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.72E-04
740	ALL	434905.8	3711103	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04
741	ALL	434887.8	3711115	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.33E-04
742	ALL	434869.8	3711127	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.84E-04
743	ALL	434851.8	3711138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-04
744	ALL	434810.7	3711155	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.08E-04
745	ALL	434787.5	3711159	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.14E-04
746	ALL	434764.3	3711164	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.32E-04
747	ALL	435082.8	3711158	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
748	ALL	435061.2	3711153	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
749	ALL	435021.7	3711161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-04
750	ALL	435003.9	3711173	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
751	ALL	434969.7	3711199	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
752	ALL	434953.4	3711213	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.53E-04
753	ALL	434916.3	3711240	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.94E-04
754	ALL	434895.6	3711253	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.19E-04
755	ALL	434860.5	3711279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.30E-04
756	ALL	434846	3711293	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
757	ALL	434821.5	3711323	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-03
758	ALL	434811.4	3711340	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-03
759	ALL	434820.1	3711372	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-03
760	ALL	434838.8	3711387	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03
761	ALL	434847.9	3711425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-04
762	ALL	434838.1	3711447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-04
763	ALL	434828.4	3711469	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.85E-04
764	ALL	434815	3711513	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.40E-04
765	ALL	434811.4	3711536	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-04
766	ALL	434807.8	3711558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-04
767	ALL	434811.1	3711602	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.93E-04
768	ALL	434818	3711624	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.46E-04
769	ALL	434825	3711645	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-04
770	ALL	434831.9	3711667	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.78E-04
771	ALL	434849.7	3711706	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-04
772	ALL	434860.5	3711724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.99E-04
773	ALL	434871.3	3711742	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-04
774	ALL	434897.1	3711773	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04
775	ALL	434912	3711786	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
776	ALL	434911.5	3711817	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.29E-04
777	ALL	434896.1	3711833	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
778	ALL	434879.5	3711873	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-04

779	ALL	434878.2	3711897	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
780	ALL	434877	3711920	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.66E-04
781	ALL	434875.7	3711943	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.58E-04
782	ALL	434874.5	3711966	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E-04
783	ALL	434873.3	3711989	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
784	ALL	434861.2	3712032	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-04
785	ALL	434850.4	3712051	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
786	ALL	434839.5	3712071	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
787	ALL	434828.7	3712090	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-04
788	ALL	434817.9	3712109	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E-04
789	ALL	434815	3712151	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E-04
790	ALL	434840.4	3712186	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-04
791	ALL	434857.9	3712200	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
792	ALL	434875.4	3712214	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
793	ALL	434911.6	3712244	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-04
794	ALL	434930.3	3712260	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
795	ALL	434949	3712276	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
796	ALL	434983.3	3712310	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
797	ALL	434998.9	3712328	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
798	ALL	435014.5	3712346	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
799	ALL	435030.2	3712364	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
800	ALL	435059	3712398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.17E-04
801	ALL	435072.3	3712415	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
802	ALL	435085.5	3712431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
803	ALL	435098.8	3712447	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
804	ALL	435132.4	3712472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.46E-05
805	ALL	435152.8	3712481	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.08E-05
806	ALL	435191.3	3712491	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.48E-05
807	ALL	435209.4	3712492	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
808	ALL	435227.5	3712472	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.09E-05
809	ALL	435227.5	3712450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.19E-05
810	ALL	435227.5	3712428	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
811	ALL	435227.5	3712406	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.33E-05
812	ALL	435227.5	3712384	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
813	ALL	435227.5	3712362	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.58E-05
814	ALL	435230.9	3712317	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.81E-05
815	ALL	435234.3	3712295	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.91E-05
816	ALL	435237.7	3712273	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.96E-05
817	ALL	435241.1	3712251	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05
818	ALL	435254	3712211	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.92E-05
819	ALL	435263.5	3712194	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.52E-05
820	ALL	435273.1	3712176	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
821	ALL	435282.6	3712158	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.36E-05
822	ALL	435305.7	3712123	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.26E-05
823	ALL	435329.1	3712083	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.29E-05
824	ALL	435339	3712062	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-05
825	ALL	435348.8	3712040	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.09E-05
826	ALL	435358.7	3712018	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05
827	ALL	435386	3711979	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.79E-05
828	ALL	435403.4	3711962	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.76E-05
829	ALL	435420.9	3711945	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.73E-05
830	ALL	435438.3	3711928	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.68E-05

831	ALL	435455.8	3711911	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.59E-05
832	ALL	435473.2	3711894	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-05
833	ALL	435490.7	3711876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05
834	ALL	435508.1	3711859	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.22E-05
835	ALL	435525.5	3711842	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.10E-05
836	ALL	435543	3711825	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-05
837	ALL	435562.1	3711795	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.88E-05
838	ALL	435548	3711769	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-05
839	ALL	435532.1	3711756	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.21E-05
840	ALL	435501.8	3711724	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.65E-05
841	ALL	435487.4	3711705	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.88E-05
842	ALL	435473	3711686	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.19E-05
843	ALL	435446.4	3711650	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.87E-05
844	ALL	435434.2	3711633	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.25E-05
845	ALL	435422	3711616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.64E-05
846	ALL	435409.8	3711599	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.12E-05
847	ALL	435397.7	3711582	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
848	ALL	435373.6	3711558	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-04
849	ALL	435379.1	3711534	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
850	ALL	435396.5	3711517	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
851	ALL	435413.9	3711500	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
852	ALL	435418.6	3711466	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
853	ALL	435405.9	3711448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-04
854	ALL	435393.1	3711431	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
855	ALL	435380.4	3711413	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
856	ALL	435367.7	3711396	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
857	ALL	435337.3	3711363	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
858	ALL	435319.7	3711348	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
859	ALL	435302.1	3711334	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
860	ALL	435284.4	3711319	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
861	ALL	435266.8	3711304	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
862	ALL	435249.2	3711289	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-04
863	ALL	435231.6	3711274	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.42E-04
864	ALL	435197.4	3711241	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
865	ALL	435180.8	3711222	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
866	ALL	435164.3	3711203	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-04
867	ALL	435126.1	3711174	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04
868	ALL	433950.3	3712398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
869	ALL	433971.4	3712389	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
870	ALL	433992.5	3712379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.28E-05
871	ALL	434013.6	3712370	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
872	ALL	434044.1	3712340	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.78E-05
873	ALL	434053.5	3712320	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04
874	ALL	434062.9	3712300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
875	ALL	434072.2	3712279	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
876	ALL	434084.8	3712237	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-04
877	ALL	434087.9	3712215	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
878	ALL	434091	3712193	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
879	ALL	434094.1	3712171	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
880	ALL	434097.3	3712125	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.19E-04
881	ALL	434097.3	3712101	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.22E-04
882	ALL	434097.3	3712077	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04

883	ALL	434097.3	3712053	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-04
884	ALL	434109	3712006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-04
885	ALL	434120.7	3711985	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
886	ALL	434132.4	3711963	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
887	ALL	434144.1	3711941	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-04
888	ALL	434159.8	3711896	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
889	ALL	434163.7	3711874	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
890	ALL	434167.6	3711851	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.60E-04
891	ALL	434171.5	3711828	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
892	ALL	434181.9	3711783	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.89E-04
893	ALL	434188.4	3711761	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04
894	ALL	434218.4	3711746	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
895	ALL	434241.8	3711752	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
896	ALL	434280.9	3711776	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
897	ALL	434296.5	3711793	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
898	ALL	434312.2	3711809	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.11E-04
899	ALL	434327.8	3711826	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
900	ALL	434343.4	3711843	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
901	ALL	434358.3	3711837	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
902	ALL	434357.5	3711814	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
903	ALL	434356.7	3711791	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.35E-04
904	ALL	434355.9	3711768	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.47E-04
905	ALL	434355.2	3711745	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.59E-04
906	ALL	434354.4	3711722	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-04
907	ALL	434353.6	3711699	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
908	ALL	434352.8	3711676	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04
909	ALL	434352	3711653	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.17E-04
910	ALL	434330.7	3711636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.14E-04
911	ALL	434310.2	3711641	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-04
912	ALL	434289.7	3711647	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
913	ALL	434262.7	3711669	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.53E-04
914	ALL	434256.2	3711684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
915	ALL	434227.8	3711702	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
916	ALL	434205.9	3711703	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.16E-04
917	ALL	434184	3711705	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-04
918	ALL	434162.1	3711706	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
919	ALL	434127.9	3711690	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
920	ALL	434114.2	3711649	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
921	ALL	434112.9	3711627	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
922	ALL	434111.6	3711605	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
923	ALL	434099.9	3711567	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.09E-04
924	ALL	434082	3711535	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-04
925	ALL	434074.5	3711518	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
926	ALL	434083.1	3711485	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.15E-04
927	ALL	434099.3	3711469	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.27E-04
928	ALL	434138.6	3711451	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.56E-04
929	ALL	434161.7	3711448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.74E-04
930	ALL	434197.6	3711430	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.10E-04
931	ALL	434210.3	3711414	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04
932	ALL	434200.5	3711395	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.29E-04
933	ALL	434157.7	3711400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.87E-04
934	ALL	434137.5	3711409	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04

935	ALL	434117.2	3711417	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
936	ALL	434097	3711425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-04
937	ALL	434076.8	3711433	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E-04
938	ALL	434062.6	3711422	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04
939	ALL	434068.7	3711404	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-04
940	ALL	434074.8	3711385	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.31E-04
941	ALL	434086.3	3711346	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.44E-04
942	ALL	434091.8	3711325	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04
943	ALL	434097.3	3711305	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.60E-04
944	ALL	434102.8	3711284	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-04
945	ALL	434108.3	3711264	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
946	ALL	434127.6	3711225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-04
947	ALL	434141.5	3711208	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.20E-04
948	ALL	434155.4	3711190	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-04
949	ALL	434148.4	3711166	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.32E-04
950	ALL	434127.6	3711161	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.12E-04
951	ALL	434096.4	3711138	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-04
952	ALL	434086	3711121	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
953	ALL	434074.8	3711082	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.77E-04
954	ALL	434073.9	3711060	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.78E-04
955	ALL	434073	3711038	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.79E-04
956	ALL	434079.7	3711000	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.86E-04
957	ALL	434087.2	3710984	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04
958	ALL	434079.5	3710950	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.81E-04
959	ALL	434064.4	3710932	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-04
960	ALL	434049.2	3710914	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.65E-04
961	ALL	434031.1	3710876	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.46E-04
962	ALL	434028.2	3710856	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.36E-04
963	ALL	434018.4	3710818	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04
964	ALL	434011.5	3710800	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.08E-04
965	ALL	434004.5	3710782	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
966	ALL	434008	3710747	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.82E-04
967	ALL	434018.4	3710729	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E-04
968	ALL	434011.5	3710712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
969	ALL	433994.1	3710712	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
970	ALL	433964.1	3710695	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
971	ALL	433951.4	3710677	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.57E-04
972	ALL	433943	3710636	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
973	ALL	433947.3	3710593	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-04
974	ALL	433944.7	3710551	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
975	ALL	433941.5	3710509	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
976	ALL	433941	3710490	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
977	ALL	433935.2	3710448	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.82E-05
978	ALL	433930	3710424	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-05
979	ALL	433918.7	3710379	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-05
980	ALL	433912.6	3710358	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.38E-05
981	ALL	433906.6	3710337	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.16E-05
982	ALL	433900.5	3710316	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.02E-05
983	ALL	433894.4	3710294	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-05
984	ALL	433888.4	3710273	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05
985	ALL	433882.3	3710252	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.43E-05
986	ALL	433852.4	3710233	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.52E-05

987	ALL	433828.5	3710236	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.77E-05
988	ALL	433804.7	3710239	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.99E-05
989	ALL	433780.9	3710242	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.18E-05
990	ALL	433757	3710245	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.39E-05
991	ALL	433733.2	3710248	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.57E-05
992	ALL	433709.3	3710250	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-05
993	ALL	433690	3710278	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.14E-05
994	ALL	433694.6	3710302	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.50E-05
995	ALL	433699.1	3710327	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.88E-05
996	ALL	433703.6	3710351	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
997	ALL	433708.2	3710376	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.07E-04
998	ALL	433712.7	3710400	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
999	ALL	433717.2	3710425	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1000	ALL	433721.8	3710450	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.21E-04
1001	ALL	433726.3	3710474	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.26E-04
1002	ALL	433730.9	3710499	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.31E-04
1003	ALL	433735.4	3710523	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-04
1004	ALL	433739.9	3710548	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.41E-04
1005	ALL	433749.8	3710594	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04
1006	ALL	433755.2	3710616	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1007	ALL	433760.6	3710638	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1008	ALL	433766	3710660	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
1009	ALL	433771.4	3710682	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-04
1010	ALL	433776.8	3710704	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1011	ALL	433782.2	3710726	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1012	ALL	433787.6	3710748	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1013	ALL	433787.8	3710794	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1014	ALL	433782.6	3710818	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1015	ALL	433777.4	3710843	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.87E-04
1016	ALL	433790.1	3710874	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1017	ALL	433808	3710882	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.99E-04
1018	ALL	433823.8	3710910	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-04
1019	ALL	433821.6	3710930	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04
1020	ALL	433819.4	3710951	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1021	ALL	433801.2	3710983	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.79E-04
1022	ALL	433785.2	3710994	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1023	ALL	433769.2	3711006	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E-04
1024	ALL	433752.8	3711041	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1025	ALL	433752.5	3711063	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1026	ALL	433752.3	3711086	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1027	ALL	433752	3711109	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1028	ALL	433751.7	3711132	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1029	ALL	433764.1	3711172	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.46E-04
1030	ALL	433776.8	3711189	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.44E-04
1031	ALL	433789.5	3711206	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1032	ALL	433802.3	3711223	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.48E-04
1033	ALL	433815	3711240	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
1034	ALL	433842.2	3711271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.55E-04
1035	ALL	433856.8	3711286	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1036	ALL	433871.4	3711300	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-04
1037	ALL	433885.9	3711314	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1038	ALL	433923.5	3711335	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04
1039	ALL	433946.5	3711342	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-04
1040	ALL	433969.4	3711349	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.86E-04
1041	ALL	433995	3711377	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1042	ALL	433997.6	3711398	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.94E-04
1043	ALL	434000.2	3711418	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04
1044	ALL	434002.8	3711439	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1045	ALL	434005.4	3711460	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-04
1046	ALL	433988.1	3711492	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.81E-04
1047	ALL	433968.1	3711504	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.76E-04
1048	ALL	433948.2	3711515	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-04
1049	ALL	433928.2	3711527	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-04
1050	ALL	433908.3	3711539	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E-04
1051	ALL	433882.1	3711572	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-04
1052	ALL	433875.8	3711595	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.59E-04
1053	ALL	433869.5	3711617	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04
1054	ALL	433863.2	3711639	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.49E-04
1055	ALL	433856.9	3711662	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-04
1056	ALL	433850.7	3711684	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04
1057	ALL	433844.4	3711706	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.35E-04
1058	ALL	433815.5	3711731	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-04
1059	ALL	433793	3711733	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.24E-04
1060	ALL	433770.5	3711735	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
1061	ALL	433734.1	3711751	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.13E-04
1062	ALL	433735.8	3711782	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.12E-04
1063	ALL	433751.4	3711799	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1064	ALL	433767	3711816	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-04
1065	ALL	433785.6	3711855	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-04
1066	ALL	433788.7	3711877	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1067	ALL	433791.7	3711899	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.14E-04
1068	ALL	433789.3	3711945	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1069	ALL	433783.8	3711968	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-04
1070	ALL	433778.4	3711992	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.10E-04
1071	ALL	433772.9	3712015	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-04
1072	ALL	433767.5	3712039	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-04
1073	ALL	433762	3712062	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1074	ALL	433735.8	3712075	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1075	ALL	433715	3712065	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1076	ALL	433694.2	3712055	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1077	ALL	433673.4	3712044	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-04
1078	ALL	433652.6	3712034	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-04
1079	ALL	433631.8	3712023	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.01E-04
1080	ALL	433611	3712013	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.99E-05
1081	ALL	433589	3712023	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.71E-05
1082	ALL	433587.8	3712044	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.57E-05
1083	ALL	433607	3712073	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.62E-05
1084	ALL	433627.3	3712081	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
1085	ALL	433647.6	3712089	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-05
1086	ALL	433667.9	3712097	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.93E-05
1087	ALL	433688.2	3712105	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.91E-05
1088	ALL	433708.5	3712113	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05
1089	ALL	433729.7	3712143	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.52E-05
1090	ALL	433730.6	3712166	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.37E-05

1091	ALL	433731.5	3712188	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
1092	ALL	433746.2	3712225	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.15E-05
1093	ALL	433760.1	3712238	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.19E-05
1094	ALL	433773.9	3712252	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.23E-05
1095	ALL	433810.3	3712268	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.41E-05
1096	ALL	433832.9	3712271	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.55E-05
1097	ALL	433855.4	3712273	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.73E-05
1098	ALL	433876.8	3712293	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.80E-05
1099	ALL	433875.7	3712312	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-05
1100	ALL	433888.2	3712350	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05
1101	ALL	433901.9	3712369	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.09E-05
1102	ALL	433915.5	3712388	NonCancer	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.01E-05

Appendix B-1a
CNDDB Species Results

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (San Juan Capistrano (3311756) OR Laguna Beach (3311757) OR Dana Point (3311746) OR Canada Gobernadora (3311755) OR San Clemente (3311745) OR El Toro (3311766) OR Tustin (3311767) OR Santiago Peak (3311765))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S2	SSC
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S4	WL
Ammodramus savannarum grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Anaxyrus californicus arroyo toad	AAABB01230	Endangered	None	G2G3	S2	SSC
Anniella stebbinsi Southern California legless lizard	ARACC01060	None	None	G3	S3	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G4	S3	SSC
Aphanisma blitoides aphanisma	PDCHE02010	None	None	G3G4	S2	1B.2
Aquila chrysaetos golden eagle	ABNKC22010	None	None	G5	S3	FP
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Asio otus long-eared owl	ABNSB13010	None	None	G5	S3?	SSC
Aspidoscelis hyperythra orange-throated whiptail	ARACJ02060	None	None	G5	S2S3	WL
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
Astragalus brauntonii Braunton's milk-vetch	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S2	SSC
Atriplex coulteri Coulter's saltbush	PDCHE040E0	None	None	G3	S1S2	1B.2
Atriplex pacifica south coast saltscale	PDCHE041C0	None	None	G4	S2	1B.2
Atriplex parishii Parish's brittlescale	PDCHE041D0	None	None	G1G2	S1	1B.1
Atriplex serenana var. davidsonii Davidson's saltscale	PDCHE041T1	None	None	G5T1	S1	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Bombus crotchii Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G2	S2	
Bombus pensylvanicus American bumble bee	IIHYM24260	None	None	G3G4	S2	
Branchinecta sandiegonensis San Diego fairy shrimp	ICBRA03060	Endangered	None	G2	S1	
Brodiaea filifolia thread-leaved brodiaea	PMLIL0C050	Threatened	Endangered	G2	S2	1B.1
Buteo regalis ferruginous hawk	ABNKC19120	None	None	G4	S3S4	WL
Calochortus weedii var. intermedius intermediate mariposa-lily	PMLIL0D1J1	None	None	G3G4T3	S3	1B.2
Campylorhynchus brunneicapillus sandiegensis coastal cactus wren	ABPBG02095	None	None	G5T3Q	S2	SSC
Canyon Live Oak Ravine Forest Canyon Live Oak Ravine Forest	CTT61350CA	None	None	G3	S3.3	
Centromadia parryi ssp. australis southern tarplant	PDAST4R0P4	None	None	G3T2	S2	1B.1
Chaenactis glabriuscula var. orcuttiana Orcutt's pincushion	PDAST20095	None	None	G5T1	S1	1B.1
Chaetodipus californicus femoralis Dulzura pocket mouse	AMAFD05021	None	None	G5T3	S3	
Chaetodipus fallax fallax northwestern San Diego pocket mouse	AMAFD05031	None	None	G5T3T4	S3S4	
Choeronycteris mexicana Mexican long-tongued bat	AMACB02010	None	None	G3G4	S1	SSC
Chorizanthe polygonoides var. longispina long-spined spineflower	PDPGN040K1	None	None	G5T3	S3	1B.2
Cicindela latesignata western beach tiger beetle	IICOL02110	None	None	G2G3	S1	
Circus hudsonius northern harrier	ABNKC11011	None	None	G5	S3	SSC
Clinopodium chandleri San Miguel savory	PDLAM08030	None	None	G2G3	S2	1B.2
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Coelus globosus globose dune beetle	IICOL4A010	None	None	G1G2	S1S2	
Comarostaphylis diversifolia ssp. diversifolia summer holly	PDERI0B011	None	None	G3T2	S2	1B.2
Coturnicops noveboracensis yellow rail	ABNME01010	None	None	G4	S2	SSC

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Crotalus ruber red-diamond rattlesnake	ARADE02090	None	None	G4	S3	SSC
Danaus plexippus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	Candidate	None	G4T1T2Q	S2	
Dipodomys stephensi Stephens' kangaroo rat	AMAFD03100	Threatened	Threatened	G2	S3	
Dudleya blochmaniae ssp. blochmaniae Blochman's dudleya	PDCRA04051	None	None	G3T2	S2	1B.1
Dudleya multicaulis many-stemmed dudleya	PDCRA040H0	None	None	G2	S2	1B.2
Dudleya stolonifera Laguna Beach dudleya	PDCRA040P0	Threatened	Threatened	G1	S1	1B.1
Dudleya viscida sticky dudleya	PDCRA040T0	None	None	G2	S2	1B.2
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Empidonax traillii extimus southwestern willow flycatcher	ABPAE33043	Endangered	Endangered	G5T2	S3	
Emys marmorata western pond turtle	ARAAD02030	Proposed Threatened	None	G3G4	S3	SSC
Eremophila alpestris actia California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Eryngium pendletonense Pendleton button-celery	PDAPI0Z120	None	None	G1	S1	1B.1
Eucyclogobius newberryi tidewater goby	AFCQN04010	Endangered	None	G3	S3	
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G4G5T4	S3S4	SSC
Euphorbia misera cliff spurge	PDEUP0Q1B0	None	None	G5	S2	2B.2
Gila orcuttii arroyo chub	AFCJB13120	None	None	G2	S2	SSC
Harpagonella palmeri Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
Helianthus nuttallii ssp. parishii Los Angeles sunflower	PDAST4N102	None	None	G5TX	SX	1A
Hesperocyparis forbesii Tecate cypress	PGCUP040C0	None	None	G2	S2	1B.1
Horkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Icteria virens yellow-breasted chat	ABPBX24010	None	None	G5	S4	SSC

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Imperata brevifolia California satintail	PMPOA3D020	None	None	G3	S3	2B.1
Isocoma menziesii var. decumbens decumbent goldenbush	PDAST57091	None	None	G3G5T2T3	S2	1B.2
Lasiurus frantzii western red bat	AMACC05080	None	None	G4	S3	SSC
Lasthenia glabrata ssp. coulteri Coulter's goldfields	PDAST5L0A1	None	None	G4T2	S2	1B.1
Laterallus jamaicensis coturniculus California black rail	ABNME03041	None	Threatened	G3T1	S2	FP
Lepechinia cardiophylla heart-leaved pitcher sage	PDLAM0V020	None	None	G3	S2S3	1B.2
Lepidium virginicum var. robinsonii Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
Lycium brevipes var. hassei Santa Catalina Island desert-thorn	PDSOL0G0N0	None	None	G5T1Q	S1	3.1
Monardella hypoleuca ssp. intermedia intermediate monardella	PDLAM180A4	None	None	G4T2?	S2?	1B.3
Monardella macrantha ssp. hallii Hall's monardella	PDLAM180E1	None	None	G5T3	S3	1B.3
Myosurus minimus ssp. apus little mousetail	PDRAN0H031	None	None	G5T2Q	S2	3.1
Myotis yumanensis Yuma myotis	AMACC01020	None	None	G5	S4	
Nama stenocarpa mud nama	PDHYD0A0H0	None	None	G4G5	S1S2	2B.2
Nasturtium gambelii Gambel's water cress	PDBRA270V0	Endangered	Threatened	G1	S1	1B.1
Navarretia prostrata prostrate vernal pool navarretia	PDPLM0C0Q0	None	None	G2	S2	1B.2
Neotoma lepida intermedia San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
Nolina cismontana chaparral nolina	PMAGA080E0	None	None	G3	S3	1B.2
Nyctinomops femorosaccus pocketed free-tailed bat	AMACD04010	None	None	G5	S3	SSC
Nyctinomops macrotis big free-tailed bat	AMACD04020	None	None	G5	S3	SSC
Oncorhynchus mykiss irideus pop. 10 steelhead - southern California DPS	AFCHA0209J	Endangered	Candidate Endangered	G5T1Q	S1	
Onychomys torridus ramona southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Passerculus sandwichensis beldingi Belding's savannah sparrow	ABPBX99015	None	Endangered	G5T3	S3	
Pentachaeta aurea ssp. allenii Allen's pentachaeta	PDAST6X021	None	None	G4T1	S1	1B.1
Perognathus longimembris pacificus Pacific pocket mouse	AMAFD01042	Endangered	None	G5T2	S2	SSC
Phacelia keckii Santiago Peak phacelia	PDHYD0C4G1	None	None	G1	S1	1B.3
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G4	S4	SSC
Plestiodon skiltonianus interparietalis Coronado skink	ARACH01114	None	None	G5T5	S2S3	WL
Polioptila californica californica coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T3Q	S2	SSC
Pseudognaphalium leucocephalum white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
Quercus dumosa Nuttall's scrub oak	PDFAG050D0	None	None	G3	S3	1B.1
Rallus obsoletus levipes light-footed Ridgway's rail	ABNME05014	Endangered	Endangered	G3T1T2	S1	FP
Rhinichthys osculus ssp. 8 Santa Ana speckled dace	AFCJB3705K	None	None	G5T1	S1	SSC
Salvadora hexalepis virgultea coast patch-nosed snake	ARADB30033	None	None	G5T4	S3	SSC
Senecio aphanactis chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
Setophaga petechia yellow warbler	ABPBX03010	None	None	G5	S3	SSC
Sidalcea neomexicana salt spring checkerbloom	PDMAL110J0	None	None	G4	S2	2B.2
Sorex ornatus salicornicus southern California saltmarsh shrew	AMABA01104	None	None	G5T1?	S1	SSC
Southern Coast Live Oak Riparian Forest Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Coastal Salt Marsh Southern Coastal Salt Marsh	CTT52120CA	None	None	G2	S2.1	
Southern Cottonwood Willow Riparian Forest Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Dune Scrub Southern Dune Scrub	CTT21330CA	None	None	G1	S1.1	
Southern Foredunes Southern Foredunes	CTT21230CA	None	None	G2	S2.1	

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
Southern Mixed Riparian Forest						
Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Riparian Scrub						
Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Sycamore Alder Riparian Woodland						
Spea hammondii	AAABF02020	None	None	G2G3	S3S4	SSC
western spadefoot						
Sternula antillarum browni	ABNNM08103	Endangered	Endangered	G4T2T3Q	S2	FP
California least tern						
Streptocephalus woottoni	ICBRA07010	Endangered	None	G1G2	S2	
Riverside fairy shrimp						
Suaeda esteroa	PDCHE0P0D0	None	None	G3	S2	1B.2
estuary seablite						
Symphyotrichum defoliatum	PDASTE80C0	None	None	G2	S2	1B.2
San Bernardino aster						
Taricha torosa	AAAAF02032	None	None	G4	S4	SSC
Coast Range newt						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Thamnophis hammondii	ARADB36160	None	None	G4	S3S4	SSC
two-striped gartersnake						
Tryonia imitator	IMGASJ7040	None	None	G2	S2	
mimic tryonia (=California brackishwater snail)						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						
Verbesina dissita	PDAST9R050	Threatened	Threatened	G1G2	S1	1B.1
big-leaved crownbeard						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S3	
least Bell's vireo						

Record Count: 118

Appendix B-1b

CNPS Rare Plant Inventory Results

CALIFORNIA NATIVE PLANT SOCIETY

CNPS Rare Plant Inventory

Search Results

79 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [**3311757:3311765:3311767:3311766:3311745:3311755:3311746:3311756**]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	STATE RANK	CA RARE PLANT RANK	LOWEST ELEVATION (FT)	HIGHEST ELEVATION (FT)	CA ENDEMIC
Allium marvinii	Yucaipa onion	Alliaceae	perennial bulbiferous herb	Apr-May	None	None	S1	1B.2	2495	3495	Yes
Aphanisma blitoides	aphanisma	Chenopodiaceae	annual herb	Feb-Jun	None	None	S2	1B.2	5	1000	
Artemisia palmeri	San Diego sagewort	Asteraceae	perennial deciduous shrub	(Feb)May-Sep	None	None	S3?	4.2	15	3000	
Asplenium vespertinum	western spleenwort	Aspleniaceae	perennial rhizomatous herb	Feb-Jun	None	None	S4	4.2	590	3280	
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	FE	None	S2	1B.1	15	2100	Yes
Atriplex coulteri	Coulter's saltbush	Chenopodiaceae	perennial herb	Mar-Oct	None	None	S1S2	1B.2	10	1510	
Atriplex pacifica	south coast saltscale	Chenopodiaceae	annual herb	Mar-Oct	None	None	S2	1B.2	0	460	
Atriplex parishii	Parish's brittlescale	Chenopodiaceae	annual herb	Jun-Oct	None	None	S1	1B.1	80	6235	
Atriplex serenana var. *davidsonii*	Davidson's saltscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	S1	1B.2	35	655	
Brodiaea filifolia	thread-leaved brodiaea	Themidaceae	perennial bulbiferous herb	Mar-Jun	FT	CE	S2	1B.1	80	3675	Yes
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	None	None	S3S4	4.2	50	2295	Yes
Calochortus plummerae	Plummer's mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	S4	4.2	330	5580	Yes
Calochortus weedii var. *intermedius*	intermediate mariposa-lily	Liliaceae	perennial bulbiferous herb	May-Jul	None	None	S3	1B.2	345	2805	Yes
Camissoniopsis lewisii	Lewis' evening-primrose	Onagraceae	annual herb	Mar-May(Jun)	None	None	S4	3	0	985	
Caulanthus simulans	Payson's jewelflower	Brassicaceae	annual herb	(Feb)Mar-May(Jun)	None	None	S4	4.2	295	7220	Yes
Centromadia parryi ssp. *australis*	southern tarplant	Asteraceae	annual herb	May-Nov	None	None	S2	1B.1	0	1575	

Chaenactis glabriuscula var. *orcuttiana*	Orcutt's pincushion	Asteraceae	annual herb	Jan-Aug	None	None	S1	1B.1	0	330	
Chorizanthe leptotheca	Peninsular spineflower	Polygonaceae	annual herb	May-Aug	None	None	S3	4.2	985	6235	
Chorizanthe polygonoides var. *longispina*	long-spined spineflower	Polygonaceae	annual herb	Apr-Jul	None	None	S3	1B.2	100	5020	
Cistanthe maritima	seaside cistanthe	Montiaceae	annual herb	(Feb)Mar-Jun(Aug)	None	None	S3	4.2	15	985	
Clinopodium chandleri	San Miguel savory	Lamiaceae	perennial shrub	Mar-Jul	None	None	S2	1B.2	395	3525	
Comarostaphylis diversifolia ssp. *diversifolia*	summer holly	Ericaceae	perennial evergreen shrub	Apr-Jun	None	None	S2	1B.2	100	2590	
Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	None	None	S4	4.2	100	2430	
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov	None	None	S4	4.2	80	3085	
Dichondra occidentalis	western dichondra	Convolvulaceae	perennial rhizomatous herb	(Jan)Mar-Jul	None	None	S3S4	4.2	165	1640	
Diplacus clevelandii	Cleveland's bush monkeyflower	Phrymaceae	perennial rhizomatous herb	Apr-Jul	None	None	S4	4.2	1475	6560	
Dudleya blochmaniae ssp. *blochmaniae*	Blochman's dudleya	Crassulaceae	perennial herb	Apr-Jun	None	None	S2	1B.1	15	1475	
Dudleya cymosa ssp. *ovatifolia*	Santa Monica dudleya	Crassulaceae	perennial herb	Mar-Jun	FT	None	S1	1B.1	490	5495	Yes
Dudleya multicaulis	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	None	None	S2	1B.2	50	2590	Yes
Dudleya stolonifera	Laguna Beach dudleya	Crassulaceae	perennial stoloniferous herb	May-Jul	FT	CT	S1	1B.1	35	855	Yes
Dudleya viscida	sticky dudleya	Crassulaceae	perennial herb	May-Jun	None	None	S2	1B.2	35	1805	Yes
Eryngium pendletonense	Pendleton button-celery	Apiaceae	perennial herb	Apr-Jun(Jul)	None	None	S1	1B.1	50	360	Yes
Erythranthe diffusa	Palomar monkeyflower	Phrymaceae	annual herb	Apr-Jun	None	None	S3	4.3	4005	6005	
Euphorbia misera	cliff spurge	Euphorbiaceae	perennial shrub	(Oct)Dec-Aug	None	None	S2	2B.2	35	1640	
Harpagonella palmeri	Palmer's grapplinghook	Boraginaceae	annual herb	Mar-May	None	None	S3	4.2	65	3135	
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	None	None	SX	1A	35	5005	Yes

Hesperocyparis forbesii	Tecate cypress	Cupressaceae	perennial evergreen tree		None	None	S2	1B.1	260	4920	
Holocarpha virgata ssp. *elongata*	graceful tarplant	Asteraceae	annual herb	May-Nov	None	None	S3	4.2	195	3610	Yes
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	None	None	S3S4	3.2	15	3280	
Horkelia cuneata var. *puberula*	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	None	None	S1	1B.1	230	2660	Yes
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	None	None	S3	2B.1	0	3985	
Isocoma menziesii var. *decumbens*	decumbent goldenbush	Asteraceae	perennial shrub	Apr-Nov	None	None	S2	1B.2	35	820	
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	None	None	S4	4.2	165	2955	Yes
Juncus acutus ssp. *leopoldii*	southwestern spiny rush	Juncaceae	perennial rhizomatous herb	(Mar)May-Jun	None	None	S4	4.2	10	2955	
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	None	None	S2	1B.1	5	4005	
Lepechinia cardiophylla	heart-leaved pitcher sage	Lamiaceae	perennial shrub	Apr-Jul	None	None	S2S3	1B.2	1705	4495	
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	None	None	S3	4.3	5	2905	
Lessingia hololeuca	woolly-headed lessingia	Asteraceae	annual herb	Jun-Oct	None	None	S2S3	3	50	1000	Yes
Lilium humboldtii ssp. *ocellatum*	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	None	None	S4?	4.2	100	5905	Yes
Lycium brevipes var. *hassei*	Santa Catalina Island desert-thorn	Solanaceae	perennial deciduous shrub	Jun(Aug)	None	None	S1	3.1	215	985	Yes
Lycium californicum	California box-thorn	Solanaceae	perennial shrub	Mar-Aug(Dec)	None	None	S4	4.2	15	490	
Malacothrix saxatilis var. *saxatilis*	cliff malacothrix	Asteraceae	perennial rhizomatous herb	Mar-Sep	None	None	S4	4.2	10	655	Yes
Microseris douglasii ssp. *platycarpha*	small-flowered microseris	Asteraceae	annual herb	Mar-May	None	None	S4	4.2	50	3510	
Monardella hypoleuca ssp. *intermedia*	intermediate monardella	Lamiaceae	perennial rhizomatous herb	Apr-Sep	None	None	S2?	1B.3	1310	4100	Yes
Monardella macrantha ssp. *hallii*	Hall's monardella	Lamiaceae	perennial rhizomatous herb	Jun-Oct	None	None	S3	1B.3	2395	7200	Yes
Myosurus minimus ssp. *apus*	little mousetail	Ranunculaceae	annual herb	Mar-Jun	None	None	S2	3.1	65	2100	

Nama stenocarpa	mud nama	Namaceae	annual/perennial herb	Jan-Jul	None	None	S1S2	2B.2	15	1640	
Nasturtium gambelii	Gambel's water cress	Brassicaceae	perennial rhizomatous herb	Apr-Oct	FE	CT	S1	1B.1	15	1085	
Navarretia prostrata	prostrate vernal pool navarretia	Polemoniaceae	annual herb	Apr-Jul	None	None	S2	1B.2	10	3970	Yes
Nolina cismontana	chaparral nolina	Ruscaceae	perennial evergreen shrub	(Mar)May-Jul	None	None	S3	1B.2	460	4185	Yes
Orcuttia californica	California Orcutt grass	Poaceae	annual herb	Apr-Aug	FE	CE	S1	1B.1	50	2165	
Pentachaeta aurea ssp. *allenii*	Allen's pentachaeta	Asteraceae	annual herb	Mar-Jun	None	None	S1	1B.1	245	1705	Yes
Pentachaeta aurea ssp. *aurea*	golden-rayed pentachaeta	Asteraceae	annual herb	Mar-Jul	None	None	S3	4.2	260	6070	
Phacelia hubbyi	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	None	None	S4	4.2	0	3280	Yes
Phacelia keckii	Santiago Peak phacelia	Hydrophyllaceae	annual herb	May-Jul	None	None	S1	1B.3	1790	5250	Yes
Phacelia ramosissima var. *austrolitoralis*	south coast branching phacelia	Hydrophyllaceae	perennial herb	Mar-Aug	None	None	S3	3.2	15	985	
Piperia cooperi	chaparral rein orchid	Orchidaceae	perennial herb	Mar-Jun	None	None	S3S4	4.2	50	5200	
Piperia leptopetala	narrow-petaled rein orchid	Orchidaceae	perennial herb	May-Jul	None	None	S4	4.3	1245	7300	Yes
Pseudognaphalium leucocephalum	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug-Nov(Dec)	None	None	S2	2B.2	0	6890	
Quercus dumosa	Nuttall's scrub oak	Fagaceae	perennial evergreen shrub	Feb-Apr(May-Aug)	None	None	S3	1B.1	50	1310	
Rhinotropis cornuta var. *fishiae*	Fish's milkwort	Polygalaceae	perennial deciduous shrub	May-Aug	None	None	S4	4.3	330	3280	
Romneya coulteri	Coulter's matilija poppy	Papaveraceae	perennial rhizomatous herb	Mar-Jul(Aug)	None	None	S4	4.2	65	3935	
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	None	None	S2	2B.2	50	2625	
Sidalcea neomexicana	salt spring checkerbloom	Malvaceae	perennial herb	Mar-Jun	None	None	S2	2B.2	50	5020	
Suaeda esteroa	estuary seablite	Chenopodiaceae	perennial herb	(Jan-May)Jul-Oct	None	None	S2	1B.2	0	15	
Suaeda taxifolia	woolly seablite	Chenopodiaceae	perennial evergreen shrub	Jan-Dec	None	None	S4	4.2	0	165	

Symphyotrichum defoliatum	San Bernardino aster	Asteraceae	perennial rhizomatous herb	Jul-Nov	None	None	S2	1B.2	5	6695	Yes
Verbesina dissita	big-leaved crownbeard	Asteraceae	perennial herb	(Mar)Apr-Jul	FT	CT	S1	1B.1	150	675	
Viguiera laciniata	San Diego County viguiera	Asteraceae	perennial shrub	Feb-Jun(Aug)	None	None	S4	4.3	195	2460	

Showing 1 to 79 of 79 entries

Suggested Citation:
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Appendix B-2
Species Compendium

Plant Species

Angiosperms (Dicots)

ANACARDIACEAE – SUMAC FAMILY

Rhus integrifolia – lemonade berry

ASTERACEAE – SUNFLOWER FAMILY

Baccharis pilularis – coyote brush

* *Centaurea melitensis* – tocalote
* *Cynara cardunculus* – cardoon, artichoke thistle

Gnaphalium californicum – California everlasting

BRASSICACEAE – MUSTARD FAMILY

* *Brassica nigra* – black mustard

CAPRIFOLIACEAE – HONEYSUCKLE FAMILY

* *Lonicera periclymenum* – common honeysuckle

FABACEAE – LEGUME FAMILY

* *Acacia pycnantha* – golden wattle

MYRTACEAE – MYRTLE FAMILY

* *Eucalyptus camaldulensis* – red gum Eucalyptus
* *Eucalyptus cinerea* – silver dollar Eucalyptus
* *Eucalyptus globulus* – blue gum Eucalyptus

PLATANACEAE – PLANE TREE FAMILY

Platanus racemosa – western sycamore

TAMARICACEAE – TAMARISK FAMILY

* *Tamarix ramosissima* – tamarisk, salt cedar

Angiosperms (Monocots)

ARECACEAE – PALM FAMILY

* *Washingtonia mexicana* – Mexican fan palm

PINACEAE – PINE FAMILY

* *Pinus canariensis.* – Canary Island pine

Wildlife Species – Vertebrates

Birds

ANATIDAE – DUCKS, GEESE, AND SWANS

Anas acuta – northern pintail
Anas cyanoptera – cinnamon teal
Anas platyrynchos– mallard
Mareca americana – American widgeon

CORVIDAE – JAYS AND CROWS

Corvus brachyrhynchos – American crow

CHARADRIIDAE – PLOVERS

Charadrius vociferus – killdeer

FRINGILLIDAE – FINCHES

Carpodacus mexicanus – house finch

PARULIDAE – NEW WORLD WARBLERS

Setophaga coronata – yellow-rumped warbler

PASSERELLIDAE – NEW WORLD SPARROWS

Zonotrichia leucophrys – white-crowned sparrow

RALLIDAE – RAILS

Fulica americana – American coot

TROCHILIDAE – HUMMINGBIRDS

Selasphorus sasin – Allen's hummingbird

TYRANNIDAE – TYRANT FLYCATCHERS

Sayornis nigricans – black phoebe

Mammals

SCIURIDAE – SQUIRRELS

Otospermophilus beecheyi – California ground squirrel

* signifies introduced (non-native) species

Appendix B-3a

Special-Status Plant Species Potential to Occur

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Allium marvinii	Yucaipa onion	None/None/1B.2	Chaparral (clay, openings)/perennial bulbiferous herb/Apr–May/2,490–3,490	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present, although clay soils are on site.
Aphanisma blitoides	aphanisma	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/annual herb/Feb–June/ 5–1,000	Not expected to occur. No suitable vegetation present.
Artemisia palmeri	San Diego sagewort	None/None/4.2	Chaparral, Coastal scrub, Riparian forest, Riparian scrub, Riparian woodland; Mesic, Sandy/perennial deciduous shrub/ (Feb)May–Sep/15–3,000	Not expected to occur. No suitable vegetation present.
Asplenium vespertinum	western spleenwort	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub; Rocky/perennial rhizomatous herb/ Feb–June/590–3,280	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Astragalus brauntonii	Braunton's milk-vetch	FE/None/1B.1	Chaparral, Coastal scrub, Valley and foothill grassland; Burned areas (sometimes), Carbonate, Disturbed areas (sometimes), Sandstone (usually)/perennial herb/ Jan–Aug/15–2,095	Not expected to occur. No suitable vegetation present.
Atriplex coulteri	Coulter's saltbush	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/perennial herb/Mar–Oct/10–1,505	Not expected to occur. No suitable vegetation present.No alkaline substrate present, although clay soils are on site.
Atriplex pacifica	south coast saltscale	None/None/1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Playas/annual herb/Mar–Oct/0–460	Not expected to occur. No suitable vegetation present.
Atriplex parishii	Parish's brittlescale	None/None/1B.1	Chenopod scrub, Playas, Vernal pools; Alkaline/annual herb/June–Oct/80–6,230	Not expected to occur. No suitable vegetation present.
Atriplex serenana var. *davidsonii*	Davidson's saltscale	None/None/1B.2	Coastal bluff scrub, Coastal scrub; Alkaline/ annual herb/Apr–Oct/35–655	Not expected to occur. No suitable vegetation present.
Brodiaea filifolia	thread-leaved brodiaea	FT/SE/1B.1	Chaparral (openings), Cismontane woodland, Coastal scrub, Playas, Valley and foothill	Not expected to occur. No suitable vegetation present. Clay soils

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
			grassland, Vernal pools; Clay (often)/ perennial bulbiferous herb/Mar–June/ 80–3,670	onsite are not mesic/no vernal pools present.
Calochortus catalinae	Catalina mariposa lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial bulbiferous herb/(Feb)Mar–June/50–2,295	Not expected to occur. No suitable vegetation present.
Calochortus plummerae	Plummer's mariposa-lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Granitic, Rocky/ perennial bulbiferous herb/May–July/ 330–5,575	Not expected to occur. No suitable vegetation present.
Calochortus weedii var. *intermedius*	intermediate mariposa-lily	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Rocky/perennial bulbiferous herb/May–July/345–2,805	Not expected to occur. No suitable vegetation present.
Camissoniopsis lewisii	Lewis' evening-primrose	None/None/3	Cismontane woodland, Coastal bluff scrub, Coastal dunes, Coastal scrub, Valley and foothill grassland; Clay (sometimes), Sandy (sometimes)/annual herb/Mar–May(June)/ 0–985	Not expected to occur. No suitable vegetation present, although clay soils are on site.
Caulanthus simulans	Payson's jewelflower	None/None/4.2	Chaparral, Coastal scrub; Granitic, Sandy/ annual herb/(Feb)Mar–May(June)/ 295–7,215	Not expected to occur. No suitable vegetation present.
Centromadia parryi ssp. *australis*	southern tarplant	None/None/1B.1	Marshes and swamps (margins), Valley and foothill grassland (vernally mesic), Vernal pools/annual herb/May–Nov/0–1,570	Not expected to occur. No suitable vegetation present.
Chaenactis glabriuscula var. *orcuttiana*	Orcutt's pincushion	None/None/1B.1	Coastal bluff scrub (sandy), Coastal dunes/annual herb/Jan–Aug/0–330	Not expected to occur. No suitable vegetation present.
Chorizanthe leptotheca	Peninsular spineflower	None/None/4.2	Chaparral, Coastal scrub, Lower montane coniferous forest; Granitic/annual herb/ May–Aug/985–6,230	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Chorizanthe polygonoides var. *longispina*	long-spined spineflower	None/None/1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Clay (often)/annual herb/Apr–July/ 100–5,015	Not expected to occur. No suitable vegetation present. Clay soils onsite are not mesic/no vernal pools present.
Cistanthe maritima	seaside cistanthe	None/None/4.2	Coastal bluff scrub, Coastal scrub, Valley and foothill grassland; Sandy/annual herb/ (Feb)Mar–June(Aug)/15–985	Not expected to occur. No suitable vegetation present.
Clinopodium chandleri	San Miguel savory	None/None/1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland, Valley and foothill grassland; Gabbroic (sometimes), Rocky (sometimes)/perennial shrub/Mar–July/ 395–3,525	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Comarostaphylis diversifolia ssp. *diversifolia*	summer holly	None/None/1B.2	Chaparral, Cismontane woodland/perennial evergreen shrub/Apr–June/100–2,590	Not expected to occur. No suitable vegetation present.
Convolvulus simulans	small-flowered morning-glory	None/None/4.2	Chaparral (openings), Coastal scrub, Valley and foothill grassland; Clay, Seeps, Serpentinite/annual herb/Mar–July/ 100–2,425	Not expected to occur. No suitable vegetation present. Clay soils on site are not serpentinite.
Deinandra paniculata	paniculate tarplant	None/None/4.2	Coastal scrub, Valley and foothill grassland, Vernal pools; Sandy (sometimes), Vernally Mesic (usually)/annual herb/(Mar)Apr–Nov/ 80–3,080	Not expected to occur. No suitable vegetation present.
Dichondra occidentalis	western dichondra	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/perennial rhizomatous herb/(Jan)Mar–July/165–1,640	Not expected to occur. No suitable vegetation present.
Diplacus clevelandii	Cleveland's bush monkeyflower	None/None/4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest; Disturbed areas (often), Gabbroic, Openings, Rocky/perennial rhizomatous herb/Apr–July/1,475–6,560	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Dudleya blochmaniae ssp. *blochmaniae*	Blochman's dudleya	None/None/1B.1	Chaparral, Coastal bluff scrub, Coastal scrub, Valley and foothill grassland; Clay (often), Rocky, Serpentinite/perennial herb/ Apr–June/15–1,475	Not expected to occur. No suitable vegetation present. No rocky or serpentinite substrates, although clay soils is present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Dudleya cymosa ssp. *ovatifolia*	Santa Monica dudleya	FT/None/1B.1	Chaparral, Coastal scrub; Rocky, Volcanic (sometimes)/perennial herb/Mar–June/ 490–5,495	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Dudleya multicaulis	many-stemmed dudleya	None/None/1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay (often)/perennial herb/ Apr–July/50–2,590	Not expected to occur. No suitable vegetation present. Clay soils on site have been heavily modified/compacted.
Dudleya stolonifera	Laguna Beach dudleya	FT/ST/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Rocky/ perennial stoloniferous herb/May–July/ 35–855	Not expected to occur. No suitable vegetation present.
Dudleya viscida	sticky dudleya	None/None/1B.2	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub; Rocky/perennial herb/May–June/35–1,800	Not expected to occur. No suitable vegetation present.
Eryngium pendletonense	Pendleton button-celery	None/None/1B.1	Coastal bluff scrub, Valley and foothill grassland, Vernal pools; Clay, Vernally Mesic/ perennial herb/Apr–June(July)/50–360	Not expected to occur. No suitable vegetation present. Although clay soils are on site, no vernally mesic habitat.
Erythranthe diffusa	Palomar monkeyflower	None/None/4.3	Chaparral, Lower montane coniferous forest; Gravelly (sometimes), Sandy (sometimes)/ annual herb/Apr–June/4,000–6,000	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Euphorbia misera	cliff spurge	None/None/2B.2	Coastal bluff scrub, Coastal scrub, Mojavean desert scrub; Rocky/perennial shrub/ (Oct)Dec–Aug/35–1,640	Not expected to occur. No suitable vegetation present.
Harpagonella palmeri	Palmer's grapplinghook	None/None/4.2	Chaparral, Coastal scrub, Valley and foothill grassland; Clay, Openings/annual herb/ Mar–May/65–3,130	Not expected to occur. No suitable vegetation present. Although clay soils are on site, openings are heavily modified by human disturbance (park) and ornamental vegetation.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	None/None/1A	Marshes and swamps (freshwater, coastal salt)/perennial rhizomatous herb/Aug–Oct/ 35–5,000	Not expected to occur. No suitable vegetation present.
Hesperocyparis forbesii	Tecate cypress	None/None/1B.1	Chaparral, Closed-cone coniferous forest; Clay, Gabbroic (sometimes)/perennial evergreen tree//260–4,920	Not expected to occur. No suitable vegetation present. No cypress trees observed on the study area.
Holocarpha virgata ssp. *elongata*	graceful tarplant	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland/annual herb/May–Nov/195–3,605	Not expected to occur. No suitable vegetation present.
Hordeum intercedens	vernal barley	None/None/3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (depressions, saline flats), Vernal pools/annual herb/Mar–June/ 15–3,280	Not expected to occur. No suitable vegetation present.
Horkelia cuneata var. *puberula*	mesa horkelia	None/None/1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; Gravelly (sometimes), Sandy (sometimes)/perennial herb/Feb–July(Sep)/ 230–2,655	Not expected to occur. No suitable vegetation present.
Imperata brevifolia	California satintail	None/None/2B.1	Chaparral, Coastal scrub, Meadows and seeps (often alkali), Mojavean desert scrub, Riparian scrub; Mesic/perennial rhizomatous herb/Sep–May/0–3,985	Not expected to occur. No suitable vegetation present.
Isocoma menziesii var. *decumbens*	decumbent goldenbush	None/None/1B.2	Chaparral, Coastal scrub (often disturbed areas, sandy)/perennial shrub/Apr–Nov/ 35–820	Not expected to occur. No suitable vegetation present.
Juglans californica	Southern California black walnut	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/perennial deciduous tree/Mar–Aug/165–2,950	Not expected to occur. No suitable vegetation present.
Juncus acutus ssp. *leopoldii*	southwestern spiny rush	None/None/4.2	Coastal dunes (mesic), Coastal scrub, Marshes and swamps (coastal salt), Meadows and seeps (alkaline seeps)/ perennial rhizomatous herb/(Mar)May–June/ 10–2,950	Not expected to occur. No suitable vegetation present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	None/None/1B.1	Marshes and swamps (coastal salt), Playas, Vernal pools/annual herb/Feb–June/ 5–4,000	Not expected to occur. No suitable vegetation present.
Lepechinia cardiophylla	heart-leaved pitcher sage	None/None/1B.2	Chaparral, Cismontane woodland, Closed-cone coniferous forest/perennial shrub/ Apr–July/1,705–4,490	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Lepidium virginicum var. *robinsonii*	Robinson's pepper-grass	None/None/4.3	Chaparral, Coastal scrub/annual herb/ Jan–July/5–2,900	Not expected to occur. No suitable vegetation present.
Lessingia hololeuca	woolly-headed lessingia	None/None/3	Broadleafed upland forest, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland; Clay, Serpentinite/annual herb/June–Oct/50–1,000	Not expected to occur. Clay soils are present, but are not serpentinite, and no suitable vegetation is present. In addition, this species range is in Northern California.
Lilium humboldtii ssp. *ocellatum*	ocellated Humboldt lily	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland; Openings/perennial bulbiferous herb/Mar–July(Aug)/100–5,905	Not expected to occur. No suitable vegetation present.
Lycium brevipes var. *hassei*	Santa Catalina Island desert-thorn	None/None/3.1	Coastal bluff scrub, Coastal scrub/perennial deciduous shrub/June(Aug)/215–985	Not expected to occur. No suitable vegetation present.
Lycium californicum	California box-thorn	None/None/4.2	Coastal bluff scrub, Coastal scrub/perennial shrub/Mar–Aug(Dec)/15–490	Not expected to occur. No suitable vegetation present.
Malacothrix saxatilis var. *saxatilis*	cliff malacothrix	None/None/4.2	Coastal bluff scrub, Coastal scrub/perennial rhizomatous herb/Mar–Sep/10–655	Not expected to occur. No suitable vegetation present.
Microseris douglasii ssp. *platycarpha*	small-flowered microseris	None/None/4.2	Cismontane woodland, Coastal scrub, Valley and foothill grassland, Vernal pools; Clay/ annual herb/Mar–May/50–3,510	Not expected to occur. No suitable vegetation present. Although clay soils are on site, no vernal pools present.
Monardella hypoleuca ssp. *intermedia*	intermediate monardella	None/None/1B.3	Chaparral, Cismontane woodland, Lower montane coniferous forest (sometimes)/ perennial rhizomatous herb/Apr–Sep/ 1,310–4,100	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Monardella macrantha ssp. *hallii*	Hall's monardella	None/None/1B.3	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/ June–Oct/2,395–7,200	Not expected to occur. The site is outside of the species' known elevation range.
Myosurus minimus ssp. *apus*	little mousetail	None/None/3.1	Valley and foothill grassland, Vernal pools (alkaline)/annual herb/Mar–June/65–2,095	Not expected to occur. No suitable vegetation or alkaline vernal pools present.
Nama stenocarpa	mud nama	None/None/2B.2	Marshes and swamps (lake margins, riverbanks)/annual/perennial herb/ Jan–July/15–1,640	Not expected to occur. No suitable vegetation present. Onsite catch basin and sulpher creek are channelized on site.
Nasturtium gambelii	Gambel's water cress	FE/ST/1B.1	Marshes and swamps (brackish, freshwater)/perennial rhizomatous herb/ Apr–Oct/15–1,080	Not expected to occur. No suitable vegetation present.
Navarretia prostrata	prostrate vernal pool navarretia	None/None/1B.2	Coastal scrub, Meadows and seeps, Valley and foothill grassland (alkaline), Vernal pools; Mesic/annual herb/Apr–July/ 10–3,965	Not expected to occur. No suitable vegetation present.
Nolina cismontana	chaparral nolina	None/None/1B.2	Chaparral, Coastal scrub; Gabbroic (sometimes), Sandstone (sometimes)/ perennial evergreen shrub/(Mar)May–July/ 460–4,180	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Orcuttia californica	California Orcutt grass	FE/SE/1B.1	Vernal pools/annual herb/Apr–Aug/ 50–2,165	Not expected to occur. No suitable vegetation present.
Pentachaeta aurea ssp. *allenii*	Allen's pentachaeta	None/None/1B.1	Coastal scrub (openings), Valley and foothill grassland/annual herb/Mar–June/ 245–1,705	Not expected to occur. No suitable vegetation present.
Pentachaeta aurea ssp. *aurea*	golden-rayed pentachaeta	None/None/4.2	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Riparian woodland, Valley and foothill grassland/annual herb/Mar–July/ 260–6,065	Not expected to occur. No suitable vegetation present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Phacelia hubbyi	Hubby's phacelia	None/None/4.2	Chaparral, Coastal scrub, Valley and foothill grassland; Gravelly, Rocky, Talus/annual herb/Apr–July/0–3,280	Not expected to occur. No suitable vegetation present.
Phacelia keckii	Santiago Peak phacelia	None/None/1B.3	Chaparral, Closed-cone coniferous forest/ annual herb/May–July/1,785–5,245	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Phacelia ramosissima var. *austrolitoralis*	south coast branching phacelia	None/None/3.2	Chaparral, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt); Rocky (sometimes), Sandy/perennial herb/ Mar–Aug/15–985	Not expected to occur. No suitable vegetation present.
Piperia cooperi	chaparral rein orchid	None/None/4.2	Chaparral, Cismontane woodland, Valley and foothill grassland/perennial herb/Mar–June/ 50–5,200	Not expected to occur. No suitable vegetation present.
Piperia leptopetala	narrow-petaled rein orchid	None/None/4.3	Cismontane woodland, Lower montane coniferous forest, Upper montane coniferous forest/perennial herb/May–July/ 1,245–7,295	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Polygala cornuta var. *fishiae*	Fish's milkwort	None/None/4.3	Chaparral, Cismontane woodland, Riparian woodland/perennial deciduous shrub/ May–Aug/330–3,280	Not expected to occur. No suitable vegetation present.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; Gravelly, Sandy/ perennial herb/(July)Aug–Nov(Dec)/0–6,885	Not expected to occur. No suitable vegetation present.
Quercus dumosa	Nuttall's scrub oak	None/None/1B.1	Chaparral, Closed-cone coniferous forest, Coastal scrub; Clay, Loam, Sandy/perennial evergreen shrub/Feb–Apr(May–Aug)/ 50–1,310	Not expected to occur. No suitable vegetation present. Although clay and loam soils are on site, no oak trees were observed on the study area.
Romneya coulteri	Coulter's matilija poppy	None/None/4.2	Chaparral, Coastal scrub; Burned areas (often)/perennial rhizomatous herb/ Mar–July(Aug)/65–3,935	Not expected to occur. No suitable vegetation present.

Scientific Name	Common Name	Status* (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Senecio aphanactis	chaparral ragwort	None/None/2B.2	Chaparral, Cismontane woodland, Coastal scrub; Alkaline (sometimes)/annual herb/ Jan–Apr(May)/50–2,620	Not expected to occur. No suitable vegetation or alkaline substrate present.
Sidalcea neomexicana	salt spring checkerbloom	None/None/2B.2	Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Playas; Alkaline, Mesic/perennial herb/ Mar–June/50–5,015	Not expected to occur. No suitable vegetation present.
Suaeda esteroa	estuary seablite	None/None/1B.2	Marshes and swamps (coastal salt)/ perennial herb/(Jan–May)July–Oct/0–15	Not expected to occur. The site is outside of the species' known elevation range and there is no suitable vegetation present.
Suaeda taxifolia	woolly seablite	None/None/4.2	Coastal bluff scrub, Coastal dunes, Marshes and swamps (coastal margins)/perennial evergreen shrub/Jan–Dec/0–165	Not expected to occur. No suitable vegetation present.
Symphyotrichum defoliatum	San Bernardino aster	None/None/1B.2	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, Meadows and seeps, Valley and foothill grassland (vernally mesic); Streambanks/perennial rhizomatous herb/ July–Nov/5–6,690	Not expected to occur. No suitable vegetation present.
Verbesina dissita	big-leaved crownbeard	FT/ST/1B.1	Chaparral (maritime), Coastal scrub/ perennial herb/(Mar)Apr–July/150–675	Not expected to occur. No suitable vegetation present.
Viguiera laciniata	San Diego County viguiera	None/None/4.3	Chaparral, Coastal scrub/perennial shrub/ Feb–June(Aug)/195–2,460	Not expected to occur. No suitable vegetation present.

***Status Legend:**
FE: Federally listed as endangered
FT: Federally listed as threatened
FC: Federal Candidate for listing
SE: State listed as endangered
ST: State listed as threatened
SC: State Candidate for listing
SR: State Rare
CRPR 1A: Plants presumed extirpated in California and either rare or extinct elsewhere
CRPR 1B: Plants rare, threatened, or endangered in California and elsewhere
CRPR 2A: Plants presumed extirpated in California but common elsewhere

CRPR 2B: Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3: Review List: Plants about which more information is needed
CRPR 4: Watch List: Plants of limited distribution
.1 Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20–80% occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

Appendix B-3b

Special-Status Wildlife Species Potential to Occur

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Amphibians				
Anaxyrus californicus	arroyo toad	FE/SSC	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	Not expected to occur. No suitable breeding or upland habitat present. Sulpher creek onsite is channelized and the artificial catch basin on site is too deep and has a concrete bottom.
Spea hammondii	western spadefoot	None/SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill woodlands, pastures, and other agriculture	Not expected to occur. No suitable vegetation or aquatic habitat present.
Taricha torosa (Monterey Co. south only)	California newt	None/SSC	Wet forests, oak forests, chaparral, and rolling grassland	Not expected to occur. No suitable vegetation or mesic habitat present.
Reptiles				
Anniella stebbinsi	southern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Not expected to occur. No suitable vegetation or loose soils on site.
Arizona elegans occidentalis	California glossy snake	None/SSC	Arid scrub, rocky washes, grasslands, and chapparal; open areas and areas with loose soil for burrowing.	Not expected to occur. No suitable vegetation or soils present.
Aspidoscelis hyperythra	orange-throated whiptail	None/WL	Low-elevation coastal scrub, chaparral, and valley–foothill hardwood	Not expected to occur. No suitable vegetation present. Site is not in an arid area.
Aspidoscelis tigris stejnegeri	San Diegan tiger whiptail	None/SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Not expected to occur. No suitable vegetation present. Site is not in an arid area.
Crotalus ruber	red diamondback rattlesnake	None/SSC	Coastal scrub, chaparral, oak and pine woodlands, rocky grasslands, cultivated areas, and desert flats	Not expected to occur. No suitable vegetation present.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. The site is not in an arid area and no suitable vegetation is present.
Plestiodon skiltonianus interparietalis	Coronado skink	None/WL	Woodlands, grasslands, pine forests, and chaparral; rocky areas near water	Not expected to occur. No suitable vegetation present. No rocky areas near water on site.
Salvadora hexalepis virgultea	coast patch-nosed snake	None/SSC	Brushy or shrubby vegetation; requires small mammal burrows for refuge and overwintering sites	Not expected to occur. No suitable vegetation present. No small mammal burrows present.
Thamnophis hammondii	two-striped gartersnake	None/SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Not expected to occur. No suitable vegetation present. Sulpher creek on site is channelized and the artificial catch basin is surrounded by development.
Actinemys marmorata	southwestern pond turtle	FPT/SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Not expected to occur. No suitable vegetation present. Artificial catch basin on site is concrete lined and surrounded by development. No suitable nesting or wintering habitat present. Nearest occurrence record is 1 mile north of the project site, in Laguna Niguel Lake, and historic (1970).
Birds				
Accipiter cooperii (nesting)	Cooper's hawk	None/WL	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	Low potential to occur. Eucalyptus woodland adjacent to Sulpher creek, although channelized, could support nesting and foraging opportunities for this species on site.
Agelaius tricolor (nesting colony)	tricolored blackbird	BCC/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	Not expected to nest on site. No suitable vegetation present. Although the nearest occurrence record is immediately north of the site (Laguna

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
				Niguel Park/Lake), no nesting habitat is present on site. May opportunistically forage in ornamental woodland on site.
Aimophila ruficeps canescens	Southern California rufous-crowned sparrow	None/WL	Nests and forages in open coastal scrub and chaparral with low cover of scattered scrub interspersed with rocky and grassy patches	Low potential to occur. Although no nesting habitat is present, may opportunistically forage in ornamental vegetation on site. Nearest occurrence record is immediately south of the project site in upland grasslands along sulpher creek (2002).
Ammodramus savannarum (nesting)	grasshopper sparrow	None/SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	Not expected to occur. No suitable nesting or foraging habitat present.
Aquila chrysaetos (nesting and wintering)	golden eagle	None/FP, WL	Nests and winters in hilly, open/semi-open areas, including shrublands, grasslands, pastures, riparian areas, mountainous canyon land, open desert rimrock terrain; nests in large trees and on cliffs in open areas and forages in open habitats	Not expected to occur. No occurrence records within 5 miles of the project site. Site is in an urban area with no native vegetation present
Asio otus (nesting)	long-eared owl	None/SSC	Nests in riparian habitat, live oak thickets, other dense stands of trees, edges of coniferous forest; forages in nearby open habitats	Low potential to occur. Dense Eucalyptus woodland on site could support nesting or this species. No foraging habitat present.
Athene cunicularia (burrow sites and some wintering sites)	burrowing owl	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Not expected to occur. No suitable vegetation present. No ground squirrel burrows present.
Buteo regalis (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	Not expected to occur. No suitable vegetation present.
Campylorhynchus brunneicapillus sandiegensis (San Diego and	coastal cactus wren	None/SSC	Southern cactus scrub patches	Not expected to occur. No suitable vegetation present. Site is absent of cacti.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Orange Counties only)				
Circus hudsonius (nesting)	northern harrier	BCC/SSC	Nests in open wetlands (marshy meadows, wet lightly-grazed pastures, old fields, freshwater and brackish marshes); also in drier habitats (grassland and grain fields); forages in grassland, scrubs, rangelands, emergent wetlands, and other open habitats	Not expected to occur. No suitable nesting or foraging habitat present.
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Not expected to occur. No riparian habitat present. Site is absent of willows and cottonwoods.
Coturnicops noveboracensis	yellow rail	BCC/SSC	Nesting requires wet marsh/sedge meadows or coastal marshes with wet soil and shallow, standing water	Not expected to occur. No suitable vegetation or riparian habitat present.
Elanus leucurus (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Low potential to occur. Eucalyptus woodland adjacent to Sulpher creek, although channelized, could support nesting and foraging opportunities for this species on site.
Empidonax traillii extimus (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Not expected to occur. No riparian habitat suitable for nesting or foraging present. Site is absent of willows and cottonwoods.
Eremophila alpestris actia	California horned lark	None/WL	This subspecies of horned lark occurs on the state's southern and central coastal slope and in the San Joaquin Valley. Nests and forages in grasslands, disturbed lands, agriculture, and beaches.	Not expected to occur. No nesting or foraging habitat present.
Icteria virens (nesting)	yellow-breasted chat	None/SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Not expected to occur. No nesting or foraging habitat present. Site is absent of willows and cottonwoods.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Laterallus jamaicensis coturniculus	California black rail	None/FP, ST	Tidal marshes, shallow freshwater margins, wet meadows, and flooded grassy vegetation; suitable habitats are often supplied by canal leakage in Sierra Nevada foothill populations	Not expected to occur. No nesting or foraging habitat present.
Passerculus sandwichensis beldingi	Belding's savannah sparrow	BCC/SE	Nests and forages in coastal saltmarsh dominated by pickleweed (Salicornia spp.)	Not expected to occur. No nesting or foraging habitat present.
Polioptila californica californica	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than 1,000 feet above mean sea level	Not expected to occur. No nesting or foraging habitat present.
Rallus obsoletus levipes	Ridgway's rail	FE/FP, SE	Coastal wetlands, brackish areas, coastal saline emergent wetlands	Not expected to occur. No nesting or foraging habitat present.
Setophaga petechia (nesting)	yellow warbler	None/SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Not expected to occur. No nesting or foraging habitat present. Site is absent of willows and cottonwoods.
Sternula antillarum browni (nesting colony)	California least tern	FE/FP, SE	Forages in shallow estuaries and lagoons; nests on sandy beaches or exposed tidal flats	Not expected to occur. No nesting or foraging habitat present.
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. No nesting or foraging habitat present. Site is absent of willows and cottonwoods.
Fishes				
Eucyclogobius newberryi	tidewater goby	FE/None	Brackish water habitats along the California coast from Agua Hedionda Lagoon, San Diego County, to the mouth of the Smith River	Not expected to occur. Channelized portion of Sulpher creek on site and artificial catch basin on site are not capable of supporting this species. Occurrence records in the Santa Ana river.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Gila orcuttii	arroyo chub	None/SSC	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	Not expected to occur. Channelized portion of Sulpher creek on site and artificial catch basin on site are not capable of supporting this species. Occurrence records in the Santa Ana river.
Oncorhynchus mykiss irideus pop. 10	southern steelhead - southern California DPS	FE/SCE	Clean, clear, cool, well-oxygenated streams; needs relatively deep pools in migration and gravelly substrate to spawn	Not expected to occur. Channelized portion of Sulpher creek on site and artificial catch basin on site are not capable of supporting this species. Occurrence records in Aliso Creek 2 miles west of the site.
Rhinichthys osculus ssp. 8	Santa Ana speckled dace	None/SSC	Headwaters of the Santa Ana and San Gabriel Rivers; may be extirpated from the Los Angeles River system	Not expected to occur. Channelized portion of Sulpher creek on site and artificial catch basin on site are not capable of supporting this species. Known only in the Santa Ana River.
Mammals				
Antrozous pallidus	pallid bat	None/SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Low potential to occur. May roost and forage in Eucalyptus woodland on site as well as under access road bridge above Sulpher creek.
Chaetodipus californicus femoralis	Dulzura pocket mouse	None/None	Open habitat, coastal scrub, chaparral, oak woodland, chamise chaparral, mixed-conifer habitats; disturbance specialist; 0 to 3,000 feet above mean sea level	Not expected to occur. No suitable vegetation present. No animal burrows present.
Chaetodipus fallax fallax	northwestern San Diego pocket mouse	None/None	Coastal scrub, mixed chaparral, sagebrush, desert wash, desert scrub, desert succulent shrub, pinyon–juniper, and annual grassland	Not expected to occur. No suitable vegetation present. No animal burrows present.
Choeronycteris mexicana	Mexican long-tongued bat	None/SSC	Desert and montane riparian, desert succulent scrub, desert scrub, and pinyon–juniper woodland; roosts in caves, mines, and buildings	Low potential to occur. May roost and forage along Sulpher creek and under access road bridge.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Dipodomys stephensi	Stephens' kangaroo rat	FT/ST	Annual and perennial grassland habitats, coastal scrub or sagebrush with sparse canopy cover, or in disturbed areas	Not expected to occur. No suitable vegetation present. No small mammal burrows present.
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Low potential to occur. May roost and forage in Eucalyptus woodland and under access road bridge above Sulpher creek on site. Nearest occurrence record is from an unknown date immediately west of the project stie, along Aliso Creek.
Neotoma lepida intermedia	San Diego desert woodrat	None/SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Not expected to occur. No suitable vegetation present. No woodrat middens observed on site.
Nyctinomops femorosaccus	pocketed free-tailed bat	None/SSC	Pinyon–juniper woodlands, desert scrub, desert succulent shrub, desert riparian, desert wash, alkali desert scrub, Joshua tree, and palm oases; roosts in high cliffs or rock outcrops with drop-offs, caverns, and buildings	Not expected to occur. No suitable roosting or foraging habitat present.
Nyctinomops macrotis	big free-tailed bat	None/SSC	Rocky areas; roosts in caves, holes in trees, buildings, and crevices on cliffs and rocky outcrops; forages over water	Low potential to occur. May nest and forage in Eucalyptus woodland adjacent to Sulpher creek on site.
Onychomys torridus ramona	southern grasshopper mouse	None/SSC	Grassland and sparse coastal scrub	Not expected to occur. No suitable vegetation present. No small mammal burrows present.
Perognathus longimembris pacificus	Pacific pocket mouse	FE/SSC	fine-grained sandy substrates in open coastal strand, coastal dunes, and river alluvium	Not expected to occur. No suitable vegetation present. No small mammal burrows present.
Puma concolor	mountain lion - Southern California/Central Coast ESU	None/SC	Scrubs, chaparral, riparian, woodland, and forest; rests in rocky areas and on cliffs and ledges that provide cover; most abundant in riparian areas and brushy stages of most habitats throughout California, except deserts	Not expected to occur. Eucalyptus woodland onsite and channelized portion of Sulpher creek are not suitable foraging or nesting habitat for this species. Site is in a developed area.

lowScientific Name	Common Name	Status* (Federal/State)	Habitat	Potential to Occur
Sorex ornatus salicornicus	southern California saltmarsh shrew	None/SSC	Saltmarsh, saltgrass, dense willow, bulrush	Not expected to occur. No suitable vegetation present.
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Not expected to occur. No suitable vegetation or substrate present.
Lasiurus blossevillii	western red bat	None/SSC	Forest, woodland, riparian, mesquite bosque, and orchards, including fig, apricot, peach, pear, almond, walnut, and orange; roosts in tree canopy	Low potential to occur. May roost and forage in Eucalyptus woodland on site.
Invertebrates				
Bombus crotchii	Crotch bumble bee	None/SCE	Open grassland and scrub communities supporting suitable floral resources.	Low potential to occur. Suitable floral nectar resources on site; however, this species is known to occur in more arid habitats. Nearest occurrence record is 1 mile south of the project site, from 2020, in Crown Valley Park.
Branchinecta sandiegonensis	San Diego fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. No vernal pools or ephemeral wetlands present.
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, non-vegetated ephemeral pools	Not expected to occur. No vernal pools or ephemeral wetlands present.
Danaus plexippus plexippus pop. 1	monarch - California overwintering population	FC/None	Wind-protected tree groves with nectar sources and nearby water sources	Low potential to occur. May overwinter in Eucalyptus woodland onsite. Suitable nectar sources present for foraging. Site is not a known monarch overwintering area and none are within 5 miles of the site (Xerces 2023).

***Status Abbreviations:**
FE: Federally listed as endangered
FT: Federally listed as threatened
FPE: Federally proposed for listing as endangered
FPT: Federally proposed for listing as threatened
FC: Federal candidate species (former Category 1 candidates)
BCC: U.S. Fish and Wildlife Service Bird of Conservation Concern
SSC: California Species of Special Concern
FP: California Fully Protected Species

WL: California Watch List Species
SE: State listed as endangered
ST: State listed as threatened
SC: State candidate for listing as threatened or endangered
SCE: State candidate for listing as endangered
SCT: State candidate for listing as threatened

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Appendix C

Cultural Resources Inventory for the Moulton Niguel Water District Salinity Management System Project

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August 16, 2024 15797

Alex Thomas
Principal Engineer
Moulton Niguel Water District
26161 Gordon Road
Laguna Hills, California 92653

Subject: Cultural Resources Inventory Letter Report for the Moulton Niguel Water District Salinity Management System Project, City of Laguna Niguel, Orange County, California

Dear Alex Thomas,

This letter documents the cultural resources inventory efforts conducted by Dudek for the Moulton Niguel Water District Salinity Management System Project (Project), located within the City of Laguna Niguel, Orange County, California. The Project consists of the construction of a Salinity Management System (SMS) treatment facility and associated parking and laydown yard. The Moulton Niguel Water District (District) is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA, Dudek performed a cultural resources inventory for the entire Project site. This report documents the results of the following: a records search of the California Historical Resources Information System (CHRIS) database; a review of historical maps and aerial photographs; correspondence with the Native American Heritage Commission (NAHC); a cultural resources pedestrian survey; an analysis to determine the potential for cultural resources to be impacted by Project implementation; and management recommendations.

Project Description and Location

The 1.8-acre Project site is located at 29201 La Paz Road in the City of Lagune Niguel, within the existing Regional Treatment Plant (RTP) facility and consists of four (4) parcels with the following Assessor's Information Numbers (AINs): 654-381-02, 654-381-09, 654-381-15, and 654-381-18. The Project site is located within public land survey system (PLSS) Section 27 of Township 7 South and Range 8 West of the *San Juan Capistrano, California* 7.5-minute U.S. Geological Survey (USGS) Quadrangle (Appendix A: Figure 1).

The proposed Project would construct additional wastewater treatment infrastructure at the existing RTP, which is operated by South Orange County Wastewater Authority (SOCWA). The treatment infrastructure is anticipated to include various pumps, filters, piping, tanks, and system controls that will reduce salinity in the District's wastewater prior to discharge into the RTP for further treatment. A pre-engineered metal building would house the treatment system and controls. A new parking and laydown area is proposed adjacent to the RTP's primary access road. Due to these factors, Dudek anticipates that the vertical extent of ground disturbance for the Project will be minimal. The SMS treatment facility area is approximately 1.1 acres, while the proposed parking and laydown area is approximately 0.7 acres. The proposed SMS treatment facility is bordered by the SOCWA treatment facility to the west and south, Sulphur Creek to the east, and the Water Treatment Plant Access Road to the north. The proposed parking and laydown

area is bordered by the Water Treatment Plant Access Road to the north, east, and south, and Sulphur Creek to the west (Appendix A: Figure 2).

Environmental Setting

Current site conditions of the proposed SMS treatment facility consist of an asphalt parking lot, a pump station, and a landscaped area. The proposed parking and laydown area is undeveloped and currently consist of low-lying grasses and shrubs surrounded by eucalyptus trees. The Project site is situated in the San Joaquin Hills and is approximately 3.5 miles northeast of the Pacific Ocean. A channelized portion of Sulphur Creek, a tributary of Aliso Creek, is located less than 50 feet from the Project site. The elevation at the proposed SMS treatment facility ranges between approximately 205 and 215 feet above mean sea level (amsl), sloping towards the southeast, and the elevation at the proposed parking and laydown area ranges between approximately 225 and 215 feet amsl, sloping towards the south (Google 2024).

Review of Soils

According to the Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2024a), soils within the Project site consist of two soil types: Sorrento loam, which accounts for approximately 60 percent of the soils complex, and Alo clay Sorrento loam which accounts for approximately 40 percent of the soils complex. The available official USDA soil descriptions for soil types identified within the Project site are provided below.

Sorrento loam (2024b) is characterized as well-drained soil found on alluvial fans from 2 to 9 percent slopes. Its parent material is alluvium derived from sedimentary rock. The typical soil profile for Sorrento loam is loam from 0-12 inches below the ground surface, silty clay loam from 12-62 inches below the ground surface, and sandy loam from 62-72 inches below the ground surface.

Alo clay (2024b) is characterized as well-drained soil found on hills from 30 to 50 percent slopes. Its parent material is residuum weathered from shale and sandstone. The typical soil profile for Alo clay is clay from 0-22 inches below the ground surface, and bedrock from 22-79 inches below the ground surface.

Reoccurring alluvial action and flooding serve to support the presence of subsurface cultural deposits in the area. Since there are alluvial soils present throughout the Project site, there is moderate potential for subsurface cultural resources.

A review of the USGS mineral resources (USGS 2024) online spatial data for geology indicates that the Project site is comprised of one type of geologic unit. The entirety (100 percent) of the Project site is underlain by Miocene marine rocks from the Oligocene to Pliocene epoch.

Regulatory Context

This section includes a discussion of the applicable state laws, ordinances, regulations, and standards governing cultural resources, which must be adhered to before and during construction of the Project.

Under the provisions of CEQA, including the CEQA Statutes (PRC Sections 21083.2 and 21084.1), the CEQA Guidelines (14 CCR 15064.5), and California Public Resources Code (PRC) Section 5024.1 (14 CCR 4850 et seq.), properties expected to be directly or indirectly affected by a proposed project must be evaluated for California Register of Historical Resources (CRHR) eligibility (PRC Section 5024.1).

The purpose of the CRHR is to maintain listings of the state's historical resources and to indicate which properties are to be protected, to the extent prudent and feasible, from material impairment and substantial adverse change. The term historical resources includes a resource listed in or determined to be eligible for listing in the CRHR; a resource included in a local register of historical resources; and any object, building, structure, site, area, place, record, or manuscript that a lead agency determines to be historically significant (14 CCR 15064.5[a]). The criteria for listing properties in the CRHR were developed in accordance with previously established criteria developed for listing in the National Register of Historic Places (NRHP). The California Office of Historic Preservation regards "any physical evidence of human activities over 45 years old" as meriting recordation and evaluation (OHP 1995:2).

State

The California Register of Historical Resources (CRHR)

A cultural resource is considered "historically significant" under CEQA if the resource meets one or more of the criteria for listing on the CRHR. The CRHR was designed to be used by state and local agencies, private groups, and citizens to identify existing cultural resources within the state and to indicate which of those resources should be protected, to the extent prudent and feasible, from substantial adverse change. The following criteria have been established for the CRHR. A resource is considered significant if it:

1. is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage;
2. is associated with the lives of persons important in our past;
3. embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values; or
4. has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting one or more of the above criteria, historical resources eligible for listing in the CRHR must retain enough of their historic character or appearance to be able to convey the reasons for their significance. Such integrity is evaluated in regard to the retention of location, design, setting, materials, workmanship, feeling, and association.

Under CEQA, if an archeological site is not a historical resource but meets the definition of a "unique archeological resource" as defined in PRC Section 21083.2, then it should be treated in accordance with the provisions of that section. A unique archaeological resource is defined as follows:

- An archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:
    - Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information
    - Has a special and particular quality, such as being the oldest of its type or the best available example of its type

- Is directly associated with a scientifically recognized important prehistoric or historic event or person

Resources that neither meet any of these criteria for listing in the CRHR nor qualify as a "unique archaeological resource" under CEQA (PRC Section 21083.2) are viewed as not significant. Under CEQA, "A non-unique archaeological resource need be given no further consideration, other than the simple recording of its existence by the lead agency if it so elects" (PRC Section 21083.2[h]).

Impacts that adversely alter the significance of a resource listed in or eligible for listing in the CRHR are considered a significant effect on the environment. Impacts to historical resources from a proposed project are thus considered significant if the project (1) physically destroys or damages all or part of a resource; (2) changes the character of the use of the resource or physical feature within the setting of the resource, which contributes to its significance; or (3) introduces visual, atmospheric, or audible elements that diminish the integrity of significant features of the resource.

California Environmental Quality Act

As described further, the following CEQA statutes (PRC Section 21000 et seq.) and CEQA Guidelines (14 CCR 15000 et seq.) are of relevance to the analysis of archaeological, historic, and tribal cultural resources:

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) defines "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of a historical resource.
- PRC Section 21074(a) defines "tribal cultural resources."
- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- PRC Sections 21083.2(b) and 21083.2(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may also help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; CEQA Guidelines Section 15064.5(b)). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1(q)), it is an "historical resource" and is presumed to be historically or culturally significant for purposes of CEQA (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (PRC Section 21084.1; CEQA Guidelines Section 15064.5(a)).

A "substantial adverse change in the significance of an historical resource" reflecting a significant effect under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (CEQA Guidelines

Section 15064.5(b)(1); PRC Section 5020.1(q)). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

(1) Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or

(2) Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or

(3) Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA (CEQA Guidelines Section 15064.5(b)(2)).

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2(a)–(c)).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

(1) Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

(2) Has a special and particular quality such as being the oldest of its type or the best available example of its type.

(3) Is directly associated with a scientifically recognized important prehistoric or historic event or person (PRC Section 21083.2(g)).

Impacts on nonunique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2(a); CEQA Guidelines Section 15064.5(c)(4)). However, if a nonunique archaeological resource qualifies as a TCR (PRC Sections 21074(c) and 21083.2(h)), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in PRC Section 5097.98.

Native American Historic Cultural Sites (California Public Resources Code Section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NAHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

Assembly Bill 52

California Assembly Bill 52, which took effect July 1, 2015, establishes a consultation process between California Native American Tribes and lead agencies in order to address tribal concerns regarding project impacts and mitigation to “tribal cultural resources” (TCR). Public Resources Code section 21074(a) defines TCRs and states that a project that has the potential to cause a substantial adverse change to a TCR is a project that may have an adverse effect on the environment. A TCR is defined as a site, feature, place, cultural landscape, sacred place, and object with cultural value to a California Native American tribe that is either:

1. listed or eligible for listing in the CRHR or a local register of historical resources, or

2. determined by a lead agency to be a TCR.

Local

The City of Laguna Niguel General Plan's Open Space/Parks/Conservation Element includes the following goals and policies for cultural resources (City of Laguna Niguel 1992).

Goal 7 Recognize significant cultural sites or features within the community.

Intent The intent is to ensure that these resources are conserved because they provide a link to a community's past, as well as a frame of reference for the future. These resources require conservation, or they will be lost to future generations.

Policy 7.1 Review the technical data on sensitive cultural resources for all new development proposals.

Policy 7.2 Require mitigation of impacts to significant areas of archaeological and paleontological resources.

Policy 7.3 Preserve uncovered resources in their natural state, as much as feasible to assure their preservation and availability for later study. Require that uncovered resources are documented and retained in an appropriate museum or other institution.

Action 7.3.1 Require effective mitigation measures where development may affect archaeological and paleontological resources.

Action 7.3.2 Require the preparation of archaeological or paleontological reports in areas where there is potential to impact cultural resources.

Action 7.3.3 Require that an archaeologist or paleontologist be retained to observe grading activities in areas where the probable presence of archaeological or paleontological resources is indicated.

Background Research

SCCIC Records Search

On December 13, 2023, Dudek conducted a search of the CHRIS at the South Central Coastal Information Center (SCCIC), located on the campus of California State University, Fullerton. The search included any previously recorded cultural resources and investigations within a one-mile radius of the Project site. The CHRIS search also included a review of the NRHP, the CRHR, the California Points of Historical Interest list, the California Historical Landmarks list, the Archaeological Determinations of Eligibility list, and the California State Historic Resources Inventory list. The complete results of the SCCIC records search are attached as Confidential Appendix B.

Previously Conducted Cultural Resource Studies

The SCCIC records search indicates that twenty-four (24) previous cultural resource studies have been conducted within one mile of the Project site between 1963 and 2014. None of these previous studies overlap or are adjacent to the Project site. The closest studies consisting of more than a records search are approximately 125 meters (410 feet) to the west. Table 1, below, details all previous cultural resources studies.

Table 1. Previous Technical Studies Within One Mile of the Project Site

SCCIC Report No.	Authors	Year	Title	Proximity to Proposed Project Site
OR-00040	Scientific Resource Surveys, Inc.	1976	Archaeological Report on the Aliso Water Management Agency-phase III Proposed Regional Wastewater Treatment Facilities of Orange County, California	Outside
OR-00255	Anonymous	1977	Archaeological Report on the Aliso Creek Corridor- Planning Units 2 & 3 Orange County, California	Outside
OR-00316	Anonymous	1978	Archaeological Report on Archaeological Site CA-ORA-133 Located in the Laguna Niguel Area, Orange County, California	Outside
OR-00549	Singer, Clay A.	1976	Archaeological Survey and Resource Assessment of a Portion of Laguna Niguel, Orange County, California	Outside
OR-00580	Anonymous	1977	The Aliso Creek Watershed, Orange County, California a Proposal for Creating an Archaeological District for the National Register of Historic Places and a Suggested Research and Study Design	Outside
OR-00705	Anonymous	1973	A Final Report on the Scientific Resources Survey for Moulton Ranch	Outside
OR-00709	Rice, Glen E.	1974	Survey Results of Tract Number 7340	Outside
OR-00719	Anonymous	1972	Hansom Ranch	Outside
OR-00824	Bissell, Ronald M.	1986	A Report of the Status of Archaeological Sites on and Near Property Owned by the S&S Construction Company in Laguna Niguel, Orange County, California	Outside
OR-00931	Bissell, Ronald M.	1988	Cultural Resources Reconnaissance of Tract 13306, Laguna Niguel, Orange County, California	Outside
OR-00938	Bissell, Ronald M.	1988	Status of Cultural Resources in the Wood Canyon Area, Southern Orange County, California	Outside
OR-01140	Demcak, Carol R.	1991	Cultural Resources Assessment for Moulton Niguel Water District (MNWD) Reclaimed Water Distribution Facilities Project, South Orange County, California	Outside
OR-01465	N/A	1990	Archaeological, Paleontological and Historical Literature Search and Records Check for South Coastal Orange County Central Pool Relief	Outside
OR-01712	Lytton, Alma C	1963	Archaeological Investigations at Laguna Niguel, Orange County	Outside
OR-01873	Unknown	1976	Archaeological Report on the Aliso Water Management Agency-phase III Proposed Regional Wastewater Treatment Facilities Orange County, California	Outside

Table 1. Previous Technical Studies Within One Mile of the Project Site

SCCIC Report No.	Authors	Year	Title	Proximity to Proposed Project Site
OR-01924	Singer, Clay A.	1976	Archaeological Survey and Resource Assessment of a Portion of Laguna Niguel, Orange County, California	Outside
OR-02302	Hoover, Anna M. and Ronald M. Bissel	2000	Cultural Resource Recovery at CA-ORA-607, Little Kite Hill, Laguna Niguel, Orange County, California	Outside
OR-02409	Duke, Curt	2002	Cultural Resource Assessment AT&T Wireless Facility No. 13107a Orange County, California	Outside
OR-03098	Bonner, Wayne H.	2003	Cultural Resource Evaluation of Cingular Telecommunications Facility Candidate Sc-122-01 (Alicia & Highlands), 29052 1/2 Highlands, Laguna Niguel, Orange County, California	Outside
OR-03131	Kyle, Carolyn E.	2004	Cultural Resource Assessment for At&t Wireless Facility 950-013-335b 29702 Kensington Drive City of Laguna Niguel, Orange County, California	Outside
OR-03132	Kyle, Carolyn E.	2004	Cultural Resource Assessment for At&t Wireless Facility Lsanca3130b 29702 Kensington Drive City of Laguna Niguel Orange County, California	Outside
OR-03135	Billat, Lorna	2004	South Crown Valley/CA-8224a 29731 Crown Valley Pkwy, Laguna Niguel, Ca, Orange County	Outside
OR-04323	Fulton, Phil	2013	Cultural Resource Assessment Class I Inventory, Verizon Wireless Services Kite Hill Facility, City of Laguna Niguel, Orange County, California	Outside
OR-04421	Bonner, Diane and Carrie Wills	2014	Cultural Resources Records Search and Site Visit Results for Verizon Wireless Candidate Parkside, 29731 Crown Valley Parkway, Laguna Niguel, Orange County, California	Outside

Previously Recorded Cultural Resources

The SCCIC records search indicates that while no cultural resources have been previously recorded within the Project site, four (4) prehistoric cultural resources have been previously recorded within one mile of the Project site. No historic-era cultural resources were identified within the one-mile records search radius. Table 2, below, details the cultural resources within the search area, followed by a brief summary of those resources.

Table 2. Previously Recorded Cultural Resources Within One Mile of the Project site

Primary Number & Trinomial	Description	NRHP Eligibility	Recording Events	Approximate Proximity to Project site
P-30-000018; CA-ORA-000018	Prehistoric site containing midden, bedrock mortars, mammal bone, marine shell, manos, and scrapers.	Not evaluated	1949; 1960 (Fitzwater)	1,415 meters (4,642 feet) northwest

Table 2. Previously Recorded Cultural Resources Within One Mile of the Project site

Primary Number & Trinomial	Description	NRHP Eligibility	Recording Events	Approximate Proximity to Project site
P-30-000133; CA-ORA-000133	Prehistoric site consisting of "crude scattered artifacts and broken stones".	Not evaluated	1963 (Hafner);	1,290 meters (4,232 feet) northwest
P-30-000424; CA-ORA-000424	Prehistoric site containing manos and metate fragments, and a spent chert core	Not evaluated	1973 (Cooley, Butler, Hall, Archaeological Research, Inc)	1,115 meters (3,658 feet) northwest
P-30-000607; CA-ORA-000607	Prehistoric site containing stone tools, a tool blank, cores, fire-affected rocks, debitage, a denticulate, an axe, and shell fragments	Unknown	1976 (Desautels and Desautels, Scientific Resources Survey, Inc.); 2000 (A. Hoover, R. Bissell, RMW Paleo Associates)	1,290 meters (4,232 feet) northwest

P-30-000018

P-30-000018 is a prehistoric site measuring approximately 15 meters (50 feet) in diameter and sits at an elevation of 106 feet amsl. P-30-000018 was initially recorded in 1949 by an unlisted author as a "very large (prehistoric) camp", with five rocks that had bedrock mortars of various sizes, as well as other unspecified "materials" scattered over a wide area. The 1949 site record also states there is a burial ground 300 feet north of the bedrock mortar complex. It is unknown if the author was referring to P-30-000018 or a separate site. The site record for P-30-000018 was updated in 1960 by R.J. Fitzwater, who noted that the site contained a 50 foot in diameter midden deposit, along with 25 bedrock mortars, some mammal bones and marine shells, two unifacial handstones, and two scrapers. Fitzwater noted there was fence that bisected the site; the 1960 recording also states the site was destroyed in the remarks section. This site has not been subjected to subsurface testing nor has it been evaluated for listing on the CRHR or NRHP (P-30-000018).

P-30-000133

P-30-000133 is a prehistoric site measuring approximately 58 meters (190 feet) by 104 meters (340 feet) and sits at an elevation of 300 feet amsl. P-30-000133 was recorded by D. Hafner in 1963. Hafner noted that the prehistoric site consisted of a scatter of artifacts and broken stones on the ground surface. A test pit excavation demonstrated a change of soil color at around 6 inches below the surface, but no artifacts were found below the surface. The recording also states the site was destroyed in the remarks section. The site record does not contain additional information on subsurface testing. P-30-000133 has not been evaluated for listing on the CRHR or NRHP (P-30-000133).

P-30-000424

P-30-000424 is a prehistoric site measuring approximately 50 meters (164 feet) by 100 meters (328 feet). P-30-000424 was recorded in 1973 by Cooley, Butler, and Hall. The authors recorded this prehistoric site as one consisting of six handstone fragments, five millingstone fragments, and one spent chert core. They also noted that

the site was disturbed by grading, scraping, and disking. The aforementioned artifacts were scattered about on the ground surface, and as a result, the recorders were unable to distinguish the exact site boundaries. This site has not been subjected to subsurface testing nor has it been evaluated for listing on the CRHR or NRHP (P-30-000424).

P-30-000607

P-30-000607 is a prehistoric site measuring approximately 100 meters (328 feet) by 40 meters (131 feet). P-30-000607 was recorded in 1976 by R. Desautels and M. Desautels, who recorded the site as a campsite consisting of several different types of lithic artifacts, including cores, hammerstones, fire-affected rocks, choppers, a handstone, and debitage (non-cryptocrystalline). The site record was updated in 1998 by Ronald M. Bissell and Anna M. Hoover. Bissell and Hoover collected approximately 50 artifacts, which primarily consisted of lithics including debitage, handstones, hammerstones, scrapers, choppers, a denticulate, an axe, a tool blank, and some shell fragments. The lithic materials primarily consisted of schist, metavolcanics, quartz, and quartzite. Bissell and Hoover remarked that the site was presumably used for processing plants. They also wrote that due to housing development, the site was destroyed. The site record for P-30-000607 does not contain an evaluation of the resource for inclusion the CRHR or NRHP (P-30-000607).

Review of Historical Topographical Maps and Aerial Photographs

Dudek consulted historical topographic maps and aerial photographs through Nationwide Environmental Title Research, LLC (NETR) to better understand any natural or human-made changes to the Project site and surrounding properties over time.

Historical Topographic Maps

Topographic maps depict the elevation of a Project site as well as the areas surrounding it and illustrate the location of roads and some buildings. Although topographic maps are not comprehensive, they are another tool in determining whether a Project site has been disturbed and at times to what approximate depth. A review of available topographic maps was conducted and includes the following years: 1949, 1957, 1960, 1963, 1965, 1969, 1981, 2012, 2015, 2018, and 2022 (NETR 2024a). Table 3, below, summarizes the results of the topographic map review of the proposed Project site and surrounding properties for all available years.

Table 3. Historical Topographic Map Review

Year	Description
1949	The Project site and surrounding area are undeveloped. The Project site is located east of Sulphur Creek. A tributary of Sulphur Creek intersects both the proposed SMS treatment facility area and the proposed parking and laydown area.
1957 & 1960	There are no apparent changes within the Project site that suggest ground disturbance has occurred.
1963	The tributary of Sulphur Creek depicted intersecting the Project site is no longer illustrated. Sulphur Creek is now depicted as intersecting the western boundary of the proposed SMS treatment facility area.
1965	This topographic map depicts the same information as the 1960 map.

Table 3. Historical Topographic Map Review

Year	Description
1969	A north-south trending, informal dirt road is depicted intersecting the proposed SMS treatment facility area. A sewage disposal plant is depicted where the current RTP is located. Approximately 500 feet to the north of the Project site, the Sulphur Creek Reservoir is now present. Sulphur Creek is now depicted east of the proposed SMS treatment facility area, running parallel to the informal road, and branching off to the northeast, intersecting the proposed parking and laydown area. Approximately 250-300 feet to the southwest of the Project site, there is another informal road and two small structures.
1981	There are no apparent changes within the Project site that suggests ground disturbance has occurred. The second informal road located southwest of the Project site is no longer illustrated.
2012	The north-south trending, informal dirt road that was intersecting the proposed SMS treatment facility area is no longer illustrated. The Water Treatment Plant Access Road is shown as it is currently. Residential development and several roads east of the Project site also first appear in the 2012 historical topographic map.
2015	Sulphur Creek is still depicted east of the proposed SMS treatment facility area; however, it no longer branches off to the east, intersecting the proposed parking lot and laydown area, and instead branches off to the west. The Water Treatment Plant Access Road is not depicted.
2018	The RTP is illustrated smaller in size than depicted in the previous topographic maps. Sulphur Creek no longer branches off to the west.
2022	There are no apparent changes within the Project site that suggest ground disturbance has occurred.

While topographic maps are informative, they do not illustrate the minute changes that can occur to a landscape overtime and at times, are inconsistent with what is depicted year to year. Most often, structures depicted in topographical maps are limited to those with community or social significance (e.g. Firehouses or Hospitals), including additions or changes to roads and/or waterways. Nonetheless, the information gathered contributes to the understanding of the chronological development of a Project site.

Historical Aerial Photographs

A review of historical aerial photographs was conducted as part of the archival research effort from the following years: 1938, 1946, 1952, 1963, 1967, 1972, 1980, 1985, 1987, 1988, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2009, 2010, 2012, 2014, 2016, 2018, and 2020 (NETR 2024b). Through careful comparative review of historical aerials, changes to the landscape of a Project site may be revealed. Any disturbances to the Project site are specifically important as it helps determine if soils within the Project site are capable of sustaining intact archaeological deposits. Additionally, historical aerials have the potential to reveal whether a Project site was subjected to alluvial deposits by way of flooding, debris flows or mudslides, as well as the placement of artificial or foreign fill soils that may have buried intact archaeological deposits. Table 4, below, summarizes the results of the aerial photograph review of the Project site and surrounding properties for all available years.

Table 4. Historical Aerial Photograph Review

Photograph Year	Observations and Findings
1938	Sulphur Creek appears adjacent to the west of the proposed SMS treatment facility area. There are no structures or roads visible within or surrounding the Project site.
1946	Sulphur Creek branches off to the east and intersects the proposed SMS treatment facility area and the proposed parking and laydown area.
1952	There appears an informal road/path directly north of the Project site. The road curves south and runs directly adjacent to the western boundary of the proposed SMS treatment facility area. There are no structures visible within of surrounding the Project site.
1963	The informal road directly north of the Project site now curves to the north. The surface area within the entire Project site appears heavily disked, graded, and cleared of vegetation and other debris.
1967	The sewage disposal plant depicted in the 1969 topographic map is present where the current RTP is currently located. Sulphur Creek is now located east of the proposed SMS treatment facility area and appears to be channelized. There is an informal road intersecting the southern boundary of the proposed parking and laydown area. To the north of the Project site, there is a body of water which corresponds with the modern-day Sulphur Creek Reservoir.
1972	The road currently known as La Paz Road is now present east of the Project site. There is no longer an informal road intersecting the southern boundary of the proposed parking and laydown area.
1980	There are three structures within the proposed SMS treatment facility area and the sewage disposal plant appears under construction, cleared of standing water, and heavily graded. The Water Treatment Plant Access Road is now present. There is an informal road, running east/west, intersecting the center of the parking and laydown area. There is now residential development east of La Paz Road.
1985	There are no longer structures within the proposed SMS treatment facility area and the area appears covered in low-lying vegetation. The RTP appears as it does currently.
1987 - 1996	There are no apparent changes within the Project site.
1997	The proposed parking and laydown area appears to be in use as an unpaved parking area. There is a large circular structure within the proposed SMS treatment facility area.
1998	The proposed SMS treatment facility appears as it does present-day, with a paved parking lot and landscaped area. The proposed parking and laydown area does not appear to be in use and is covered in low-lying vegetation.
1999 - 2003	There are no apparent changes within the Project site.
2004	There are no apparent changes within the proposed SMS treatment facility area. The proposed parking and laydown area appears to have been graded.
2005 - 2020	There are no apparent changes within the Project site.

Overall, this historical archival review indicates that the surface of the Project site has been disturbed due to disking, grading, and vegetation clearing since at least 1963 and that no historic age structures have ever existed within the Project site. The sewage disposal plant was present within the proposed SMS treatment facility area since at least 1967; however, structures were not present within the proposed SMS treatment facility area until 1980. There is no evidence of previous development within the proposed parking and laydown area shown on the historical topographic maps and aerials either. In 1967 and 1980 there were informal roads intersecting the proposed parking and laydown area and in 1997 it was in use as an unpaved parking area.

Historical topographic maps and aerials also reveal that prior to being channelized, Sulphur Creek was located west of the proposed SMS treatment facility area. As early as 1938, it branched off, intersecting both the proposed SMS treatment facility and the proposed parking and laydown area.

Correspondence with the Native American Heritage Commission

Dudek requested an NAHC search of the Sacred Lands File (SLF) for the Project site and a one-mile radius on December 7, 2023. The SLF consists of a database of known Native American resources. These resources may not be included in the SCCIC database. The NAHC replied via email on January 8, 2024, stating that the SLF search was completed with positive results. Positive results indicate the presence of Native American cultural resources within one mile of the Project site, and not necessarily directly within the Project site. Additionally, the NAHC provided a list of 19 Native American individuals and/or tribal organizations that should be contacted for more information on potential tribal sensitivities regarding the currently proposed Project. To date, Dudek has not initiated contact with the individuals on the NAHC's contact list regarding the proposed Project. See Appendix C for complete documentation of NAHC correspondence and SLF search results. In compliance with AB 52, the District, as lead agency, is responsible for conducting government to government consultation with tribal entities.

Field Survey

Methods

Dudek archaeologist David Alexander conducted a pedestrian survey of the Project site on July 26, 2024. The survey was conducted using standard archaeological procedures and techniques that meet the Secretary of the Interior's standards and guidelines for Archaeology and Historic Preservation. Survey transects were spaced 5-meters wide across accessible areas of the Project site. Where transects were not feasible (such as on slopes greater than 25 degrees), a reconnaissance-level survey was conducted, selectively examining terraces, ridges, and areas of exposed ground surface where possible. Approximately 50 percent of the Project site was subject to systematic transects, while the other 50 percent was subject to a reconnaissance-level survey due to vegetation cover and hardscape.

The pedestrian survey of the approximately 1.8-acre Project site included both the proposed SMS treatment facility area and the proposed parking and laydown area. The ground surface was inspected for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, groundstone tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of structures and/or buildings (e.g., standing exterior walls, post holes, foundations), and historical artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as burrows, graded areas, and bases of trees and bushes were also visually inspected for exposed subsurface materials.

All field notes, photographs, and records related to the current study are on file at Dudek's Pasadena, California office. All field practices met the Secretary of the Interior's Standards and Guidelines for a cultural resources inventory.

Results

Ground visibility throughout the Project site ranged from 0 percent (due to hardscape and in areas of dense vegetation) to 50 percent (graded area of proposed parking and laydown area).

The proposed parking and laydown area sits within a semicircular area bounded by Water Treatment Plant Access Road (Exhibit 1). From the south and towards the center of this area, there was approximately 50 percent ground visibility. This area seemed to have been recently brushed and slightly graded and consisted of low-lying, non-native, and invasive grasses. Sediments appeared to be grey silts (possibly fill). The surrounding area was heavily covered in landscaped eucalyptus trees, shrubs and plant detritus. There was no ground visibility within approximately 50 percent of the proposed parking and laydown area. No cultural resources were observed in the in this area during the pedestrian survey.

The proposed SMS treatment facility area runs along the east side of the existing RTP, and west of Sulfur Creek and the Sulphur Creek maintenance road (Exhibit 2). This area consisted of an asphalt parking lot towards the center, pump station to the west, and a fill slope and landscaped area to the east. The proposed SMS treatment facility area appears to have been heavily disturbed. No cultural resources were observed in this area during the pedestrian survey.

Summary and Management Recommendations

Dudek conducted a cultural resources inventory in support of the Moulton Niguel Water District Salinity Management System Project, located within the City of Laguna Niguel, California. The Project consists of the construction of a SMS treatment facility and associated parking and laydown yard (Project site).

A review of available historical topographic maps and aerial photographs reveal that the Project site was undeveloped as early as 1938. However, ground disturbances including grading, disking, ground clearance, informal road development, the development of the sewage disposal plant, and the channeling of Sulphur Creek have taken place within the Project site since the 1960s. It was not until 1998 that site conditions shown in the aerial photograph appeared to be relatively consistent with present-day site conditions.

A search of the CHRIS database did not identify any cultural resources within the Project site; however, four (4) prehistoric archaeological resources were identified within a one-mile radius. The closest recorded cultural resource is over 0.5-miles from the Project site. Results of the records search also indicate that no portions of the Project site have been subject to any previous cultural resources investigations that would have included a records search or pedestrian survey prior to the development of the RTP facility.

An NAHC SLF search was also requested for the proposed Project, and results were positive for Native American cultural resources within one mile of the Project site, though the NAHC did not provide details on what the resource(s) are or where they are located. To date, Dudek has not conducted subsequent outreach or other coordination with the entities identified by NAHC. In compliance with AB 52, the District, as lead state agency, is responsible for conducting government to government consultation with tribal entities.

A pedestrian survey of the Project site was completed in July 2024 with negative results. However due to the existence of pavement and landscaped areas within the proposed SMS treatment facility area and the dense vegetation within the proposed parking and laydown area, ground visibility was overall poor within the Project site.

Based on available archival information that indicates a series of disturbances within and throughout the entire Project site, the minimal extent of ground disturbance anticipated for the proposed Project, and in consideration of the lack of previously identified cultural resources within the general Project area; there is a low potential for the inadvertent discovery of buried archaeological resources during earth moving activities for the Project. In the unlikely event that archaeological resources are encountered during the exposure of subsurface soils within the Project site, ground-disturbing work should be immediately halted and a qualified archaeologist should be retained to evaluate the resources. Management recommendations to reduce potential impacts to unanticipated archaeological resources and human remains during construction activities are provided below.

Workers Environmental Awareness Program Training. All construction personnel and monitors who are not trained archaeologists shall be briefed regarding inadvertent discoveries prior to the start of construction activities. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of archaeological materials that may be identified during construction of the Project and explain the importance of and legal basis for the protection of significant archaeological resources. Each worker shall also learn the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground-disturbing activities. These procedures include work curtailment or redirection, and the immediate contact of the site supervisor, lead agency, and project archaeologist.

Inadvertent Discovery Treatment and Protocol. In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the proposed Project, all construction work occurring within 50 feet of the find should immediately stop and a qualified archaeologist should be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. If human remains or suspected human remains are discovered, all construction work occurring within 100 feet of the find should immediately stop. Depending upon the significance of the find, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work such as preparation of an archaeological treatment plan, testing, data recovery, or monitoring may be warranted.

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the county coroner should be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains should occur until the county coroner has determined the appropriate treatment and disposition of the human remains. If the county coroner determines that the remains are, or are believed to be, Native American, he or she should follow all required protocols according to California Public Resources Code, Section 5097.98.

Should you have any questions relating to this report and its findings, please do not hesitate to contact Roshanne Bakhtiary at (760) 557-0998.

Sincerely,

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Att.: *Appendix A: Figures*
Appendix B. (Confidential) SCCIC Records Search Results
Appendix C. Native American Heritage Commission Sacred Lands File Search Results

cc: *Adam Giacinto, Dudek; Alex Hardy, Dudek*

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United States Department of Agriculture (USDA). 2024a. Web Soil Survey. USDA, Natural Resources Conservation Service, Soil Survey Staff. Accessed July 2023. https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm.

USDA. 2024b. Natural Resources Conservation Service Official Soil Series Descriptions. July 2024. https://soilseries.sc.egov.usda.gov/OSD_Docs/S/SORRENTO.html

USDA. 2024c. Natural Resources Conservation Service Official Soil Series Descriptions. July 2024. https://soilseries.sc.egov.usda.gov/OSD_Docs/A/ALO.html

USGS (United States Geological Society). 2024. Mineral Resources Online Spatial Data. Interactive maps and downloadable data for regional and global analysis. Accessed July 2024. https://mrdata.usgs.gov/

Exhibit 1. Overview of proposed parking and laydown area, view facing north.

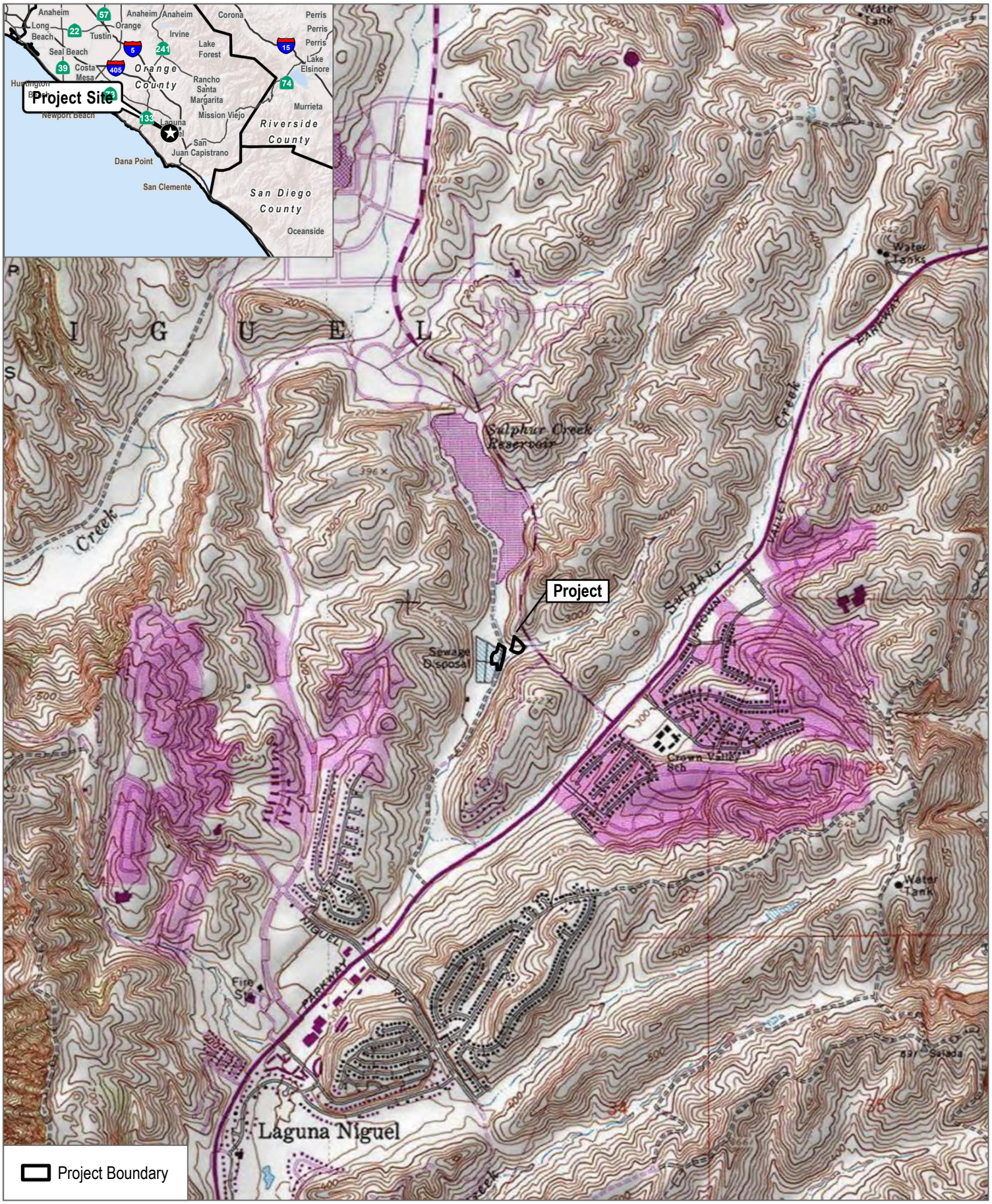


Exhibit 2. Overview of proposed SMS treatment facility, view facing southeast.



Appendix A

Figures



SOURCE: USGS 7.5-Minute Quadrangle 2024

San Juan Capistrano Quadrangle - Township 7S Range 18W Section 27

DUDEK

0 500 1,000 Feet

0 280 560 Meters

FIGURE 1

Project Location Map

MNWD Salinity Management System Project



SOURCE: Bing Imagery 2021, Orange County 2023

DUDEK

0 50 100 Feet

0 15 30 Meters

FIGURE 2

Project Site Map

MNWD Salinity Management System Project

Appendix B

CONFIDENTIAL SCCIC Records Search Results

Appendix C

Native American Heritage Commission Sacred Lands File Search Results

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95501
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

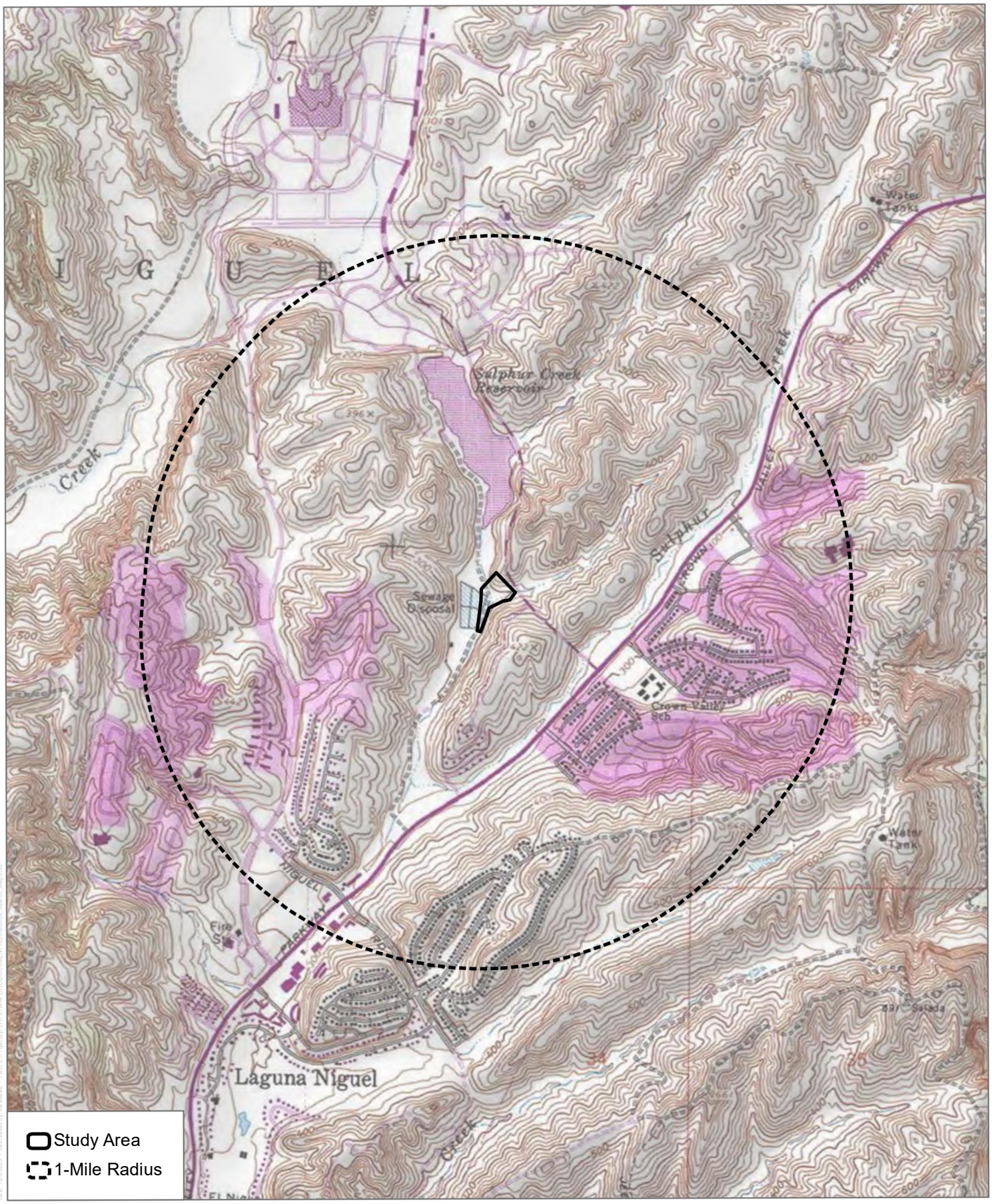
Project: 15797 MNWD Salinity Management Systems Project
County: Orange

USGS Quadrangle
Name: San Juan Capistrano
Township: 7S Range: 8W Section(s): 27

Company/Firm/Agency:
Dudek
Contact Person: Jennifer De Alba
Street Address: 621 Chapala Street
City: Santa Barbara Zip: 93101
Phone: (805) 308-8535 Extension:
Fax:
Email: jdealba@dudek.com

Project Description:
constructing additional wastewater treatment infrastructure

☑ Project Location Map is attached



SOURCE: USGS 7.5-Minute Series San Juan Capistrano Quadrangle
Township 7S; Range 8W; Section 27

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

Records Search Map

MNWD Salinity Management System Project

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan

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

January 8, 2024

Jennifer De Alba
Dudek

Via Email to: jdealba@dudek.com

Re: 15797 MNWD Salinity Management Systems Project, Orange County

Dear Ms. De Alba:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information submitted for the above referenced project. The results were positive. Please contact the Juaneno Band of Mission Indians Acjachemen Nation - Belardes on the attached list for information. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. A SLF search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with a project's geographic area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites, such as the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center for the presence of recorded archaeological sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

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

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Orange County
1/8/2024

Contact	Address	Phone	Email Address	CA	Counties	Last Update
Christina Swindall Martinez, Secretary	P.O. Box 393 Covina, CA, 91723	(844) 390-0787	admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura	8/18/2023
Andrew Salas, Chairperson	P.O. Box 393 Covina, CA, 91723	(844) 390-0787	admin@gabrielenoindians.org	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura	8/18/2023
Anthony Morales, Chairperson	P.O. Box 693 San Gabriel, CA, 91778	(626) 483-3564	GTTribalcouncil@aol.com	Gabrieleno	Los Angeles, Orange, Riverside, San Bernardino, Ventura	12/4/2023
Sandonne Goad, Chairperson	106 1/2 Judge John Aiso St., #231 Los Angeles, CA, 90012	(951) 807-0479	sgoad@gabrielino-tongva.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Ventura	3/28/2023
Robert Dorame, Chairperson	P.O. Box 490 Bellflower, CA, 90707	(562) 761-6417	gtongva@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura	3/16/2023
Christina Conley, Cultural Resource Administrator	P.O. Box 941078 Simi Valley, CA, 93094	(626) 407-8761	christina.marsden@alumni.usc.edu	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Santa Barbara, Ventura	3/16/2023
Sam Dunlap, Cultural Resource Director	P.O. Box 3919 Seal Beach, CA, 90740	(909) 262-9351	tongvatcr@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Ventura	5/30/2023
Charles Alvarez, Chairperson	23454 Vanowen Street West Hills, CA, 91307	(310) 403-6048	Chavez1956metro@gmail.com	Gabrielino	Los Angeles, Orange, Riverside, San Bernardino, Ventura	5/30/2023

Contact	Address	Phone	Email Address	CA	Counties	Last Update
Sonia Johnston, Chairperson	P.O. Box 25628 Santa Ana, CA, 92799		sonia.johnston@sbcglobal.net	Juaneno	Orange, Riverside, San Diego	
Joyce Perry, Cultural Resource Director	4955 Paseo Segovia Irvine, CA, 92603	(949) 293-8522	kaamalam@gmail.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego	3/17/2023
Heidi Lucero, Chairperson, THPO	31411-A La Matanza Street San Juan Capistrano, CA, 92675	(562) 879-2884	jbmian.chairwoman@gmail.com	Juaneno	Los Angeles, Orange, Riverside, San Bernardino, San Diego	3/28/2023
Norma Contreras, Chairperson	22000 Highway 76 Pauma Valley, CA, 92061	(760) 742-3771		Luiseno	Orange, Riverside, San Diego	
Shasta Gaughen, Tribal Historic Preservation Officer	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3515	sgaughen@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego	11/27/2023
Alexis Wallick, Assistant THPO	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3537	awallick@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego	11/27/2023
Christopher Nejo, Legal Analyst/Researcher	PMB 50, 35008 Pala Temecula Road Pala, CA, 92059	(760) 891-3564	cnejo@palatribe.com	Cupeno Luiseno	Orange, Riverside, San Bernardino, San Diego	11/27/2023
Temet Aguilar, Chairperson	P.O. Box 369 Pauma Valley, CA, 92061	(760) 742-1289	bennaecalac@aol.com	Luiseno	Orange, Riverside, San Diego	

Contact	Address	Phone	Email Address	CA	Counties	Last Update
Lovina Redner, Tribal Chair	P.O. Box 391820 Anza, CA, 92539	(951) 659-2700	lsaul@santarosa-nsn.gov	Cahuilla	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego	
Joseph Ontiveros, Tribal Historic Preservation Officer	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-5279	jontiveros@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego	7/14/2023
Jessica Valdez, Cultural Resource Specialist	P.O. Box 487 San Jacinto, CA, 92581	(951) 663-6261	jvaldez@soboba-nsn.gov	Cahuilla Luiseno	Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego	7/14/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed 15797 MNWD Salinity Management Systems Project, Orange County.

Appendix D

Baseline Field Noise Measurement Data

FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1923	
Project Name	*MNWD Salinity*
Project #	*15797*
Observer(s)	
Date	*2024-06-25*

Meteorological Conditions	
Temp (F)	*84*
Humidity % (R.H.)	*48*
Wind	*Light*
Wind Speed (MPH)	*8*
Wind Direction	*North East*
Sky	*Clear*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*

Calibrator Name	*(ENC) LD CAL150*
Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
Pre-Test (dBA SPL)	*94*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*

Monitoring	
Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*33.540005, -117.702723*
Begin (Time)	*10:35:00*
End (Time)	*10:50:00*
Leq	*65.8*
Lmax	*80.1*
Lmin	*39.5*
Other Lx?	*L90, L50, L10*
L90	*42.6*

L50	*50.6*
L10	*70.5*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*4*
Lane Width (feet)	*10*
Roadway Width (feet)	*40*
Roadway Width (m)	*12.2*
Distance to Roadway (feet)	*5*
Distance to Roadway (m)	*1.5*
Distance Measured to Centerline or Edge of Pavement?	*Edge of Pavement*
Estimated Vehicle Speed (MPH)	*45*

Traffic Counts	
Vehicle Count Summary	*A 63, MT 2, HT 2, B 0, MC 0*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*0*

Vehicle Count Tally	
Select Method for Vehicle Counts	*Enter Manually*
Number of Vehicles - Autos	*63*
Number of Vehicles - Medium Trucks	*2*
Number of Vehicles - Heavy Trucks	*2*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos

Site Photos

Photo



Comments / Description	*Facing north west*

Site Photos

Photo	
Comments / Description	*Facing southeast*

Site Photos

Photo	
Comments / Description	*Facing east*

Monitoring

Record #	*2*
Site ID	*ST2*
Site Location Lat/Long	*33.538648, -117.703160*

Begin (Time)	*10:59:00*
End (Time)	*11:14:00*
Leq	*54.8*
Lmax	*74.3*
Lmin	*40.1*
Other Lx?	*L90, L50, L10*
L90	*43.9*
L50	*47.7*
L10	*53.2*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Industrial, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*10*
Roadway Width (feet)	*20*
Roadway Width (m)	*6.1*
Distance to Roadway (feet)	*3*
Distance to Roadway (m)	*0.9*

Distance Measured to Centerline or Edge of Pavement?	*Edge of Pavement*
Estimated Vehicle Speed (MPH)	*0*

Traffic Counts

Vehicle Count Summary	*A 7, MT 0, HT 0, B 0, MC 0*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*0*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Enter Manually*
Number of Vehicles - Autos	*7*
Number of Vehicles - Medium Trucks	*0*
Number of Vehicles - Heavy Trucks	*0*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing northeast*

Site Photos

Photo	
Comments / Description	*Facing south west*

Site Photos

Photo	
Comments / Description	*Facing southeast*

Monitoring	
Record #	*3*
Site ID	*ST3*
Site Location Lat/Long	*33.538648, -117.703160*

Begin (Time)	*11:34:00*
End (Time)	*11:49:00*
Leq	*51*
Lmax	*69.2*
Lmin	*47.1*
Other Lx?	*L90, L50, L10*
L90	*47.8*
L50	*48.5*
L10	*51.9*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Birds, Distant Industrial, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing southwest*

Site Photos

Photo	
Comments / Description	*Facing north*

Site Photos

Photo	
Comments / Description	*Facing west*

Appendix D

Construction Noise Prediction Model Worksheets

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at occupied building, per FTA guidelines = 80
allowable hours over which Leq is to be averaged (example: 8 per FTA Guidelines) = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	ILbarr (dB)
Site Mobilization, vegetation removal, clearing, and grubbing	dozer	1	40	82		250	0.0		63.8	8	480	60	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	grader	1	40	85		250	0.0		66.8	8	480	63	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	Dump Truck	1	40	76		250	0.0		57.8	8	480	54	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Site Mobilization, vegetation removal, clearing, and grubbing Phase:				**65.6**											
Site Earthwork	dozer	1	40	82		250	0.0		63.8	8	480	60	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	Jackhammer	1	20	85		250	0.0		66.8	8	480	60	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	dump truck	1	40	76		250	0.0		57.8	8	480	54	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Site Earthwork Phase:				**64.2**											
Pipe Installation	Backhoe	1	40	78		250	0.0		59.8	8	480	56	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	crane	1	16	81		250	0.0		62.8	8	480	55	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Pipe Installation Phase:				**60.7**											
Treatment System Installation	crane	1	16	81		250	0.0		62.8	8	480	55	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	dozer	1	40	82		250	0.0		63.8	8	480	60	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	man lift	1	20	75		250	0.0	5.0	56.8	4	240	47	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Treatment System Installation Phase:				**62.5**											
Access Road Paving	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	roller	1	20	80		250	0.0		61.8	8	480	55	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	dump truck	1	40	76		250	0.0		57.8	8	480	54	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
	compactor (ground)	1	20	80		250	0.0		61.8	8	480	55	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Access Road Paving Phase:				**61.2**											
Landscaping	front end loader	1	40	79		250	0.0		60.8	8	480	57	230	270	0	5	245	250	230.1	364.6	253.2	0.00	0.1	0.0
								Total for Landscaping Phase:				**56.8**											

To User: bordered cells are inputs, unbordered cells have formulae

noise level limit for construction phase at occupied building, per FTA guidelines = 80
allowable hours over which Leq is to be averaged (example: 8 per FTA Guidelines) = 8

Construction Activity	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	ILbarr (dB)
Site Mobilization, vegetation removal, clearing, and grubbing	dozer	1	40	82		475	0.0		57.6	8	480	54	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	grader	1	40	85		475	0.0		60.6	8	480	57	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	Dump Truck	1	40	76		475	0.0		51.6	8	480	48	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Site Mobilization, vegetation removal, clearing, and grubbing Phase:				**59.3**											
Site Earthwork	dozer	1	40	82		475	0.0		57.6	8	480	54	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	Jackhammer	1	20	85		475	0.0		60.6	8	480	54	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	dump truck	1	40	76		475	0.0		51.6	8	480	48	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Site Earthwork Phase:				**58.0**											
Pipe Installation	Backhoe	1	40	78		475	0.0		53.6	8	480	50	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	crane	1	16	81		475	0.0		56.6	8	480	49	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Pipe Installation Phase:				**54.4**											
Treatment System Installation	crane	1	16	81		475	0.0		56.6	8	480	49	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	dozer	1	40	82		475	0.0		57.6	8	480	54	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	man lift	1	20	75		475	0.0	5.0	50.6	4	240	41	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Treatment System Installation Phase:				**56.3**											
Access Road Paving	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	roller	1	20	80		475	0.0		55.6	8	480	49	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	dump truck	1	40	76		475	0.0		51.6	8	480	48	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
	compactor (ground)	1	20	80		475	0.0		55.6	8	480	49	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Access Road Paving Phase:				**55.0**											
Landscaping	front end loader	1	40	79		475	0.0		54.6	8	480	51	230	270	0	5	470	475	230.1	542.0	476.7	0.00	0.1	0.0
								Total for Landscaping Phase:				**50.6**											

Equipment Description	Impact Device?	Acoustical Use Factor (%)	Lesser of or available Lmax	Spec. 721 Lmax	Measured L_{max} @50ft (dBA, slow)
All Other Equipment > 5 HP	No	50	85	85	-- N/A --
Auger Drill Rig	No	20	84	85	84
Backhoe	No	40	78	80	78
Bar Bender	No	20	80	80	-- N/A --
Blasting	Yes	-- N/A --	94	94	-- N/A --
Boring Jack Power Unit	No	50	80	80	83
Chain Saw	No	20	84	85	84
Clam Shovel (dropping)	Yes	20	87	93	87
Compactor (ground)	No	20	80	80	83
Compressor (air)	No	40	78	80	78
Concrete Batch Plant	No	15	83	83	-- N/A --
Concrete Mixer Truck	No	40	79	85	79
Concrete Pump Truck	No	20	81	82	81
Concrete Saw	No	20	90	90	90
Crane	No	16	81	85	81
Dozer	No	40	82	85	82
Drill Rig Truck	No	20	79	84	79
Drum Mixer	No	50	80	80	80
Dump Truck	No	40	76	84	76
Excavator	No	40	81	85	81
Flat Bed Truck	No	40	74	84	74
Front End Loader	No	40	79	80	79
Generator	No	50	72	72	81
Generator (<25KVA, VMS signs)	No	50	70	70	73
Gradall	No	40	83	85	83
Grader	No	40	85	85	-- N/A --
Grapple (on backhoe)	No	40	85	85	87
Horizontal Boring Hydr. Jack	No	25	80	80	82
Hydra Break Ram	Yes	10	90	90	-- N/A --
Impact Pile Driver	Yes	20	95	95	101
Jackhammer	Yes	20	85	85	89
Man Lift	No	20	75	85	75
Mounted Impact Hammer (hoe ram)	Yes	20	90	90	90
Pavement Scarafier	No	20	85	85	90
Paver	No	50	77	85	77
Pickup Truck	No	40	55	55	75
Pneumatic Tools	No	50	85	85	85
Pumps	No	50	77	77	81
Refrigerator Unit	No	100	73	82	73
Rivit Buster/chipping gun	Yes	20	79	85	79
Rock Drill	No	20	81	85	81
Roller	No	20	80	85	80
Sand Blasting (Single Nozzle)	No	20	85	85	96
Scraper	No	40	84	85	84
Shears (on backhoe)	No	40	85	85	96
Slurry Plant	No	100	78	78	78
Slurry Trenching Machine	No	50	80	82	80
Soil Mix Drill Rig	No	50	80	80	-- N/A --
Tractor	No	40	84	84	-- N/A --
Vacuum Excavator (Vac-truck)	No	40	85	85	85
Vacuum Street Sweeper	No	10	80	80	82
Ventilation Fan	No	100	79	85	79
Vibrating Hopper	No	50	85	85	87
Vibratory Concrete Mixer	No	20	80	80	80
Vibratory Pile Driver	No	20	95	95	101
Warning Horn	No	5	83	85	83
Welder / Torch	No	40	73	73	74

Appendix E
Operation Noise Prediction Model Inputs

AHUs (plenum-type return fan only, no condenser units [see separate worksheet]):

Building Minimum Ventilation

														A-weighting adjustments	26	13	9	3	0	-1	-1	1	
														average of values for the two fan diameter ranges, per Guyer (Table 12)	plug	40	40	38	34	29	23	19	16	
														average of values for the two fan diameter ranges, per Guyer (Table 12)	tube	47	44	46	47	44	45	38	35	
														per Guyer (Table 12, presumed based on Bies & Hansen ENC)	prop	46	48	55	53	52	48	43	38	

percent GSF actually occupied (and need ventilation): 90

Tag	Building	GSF	Avail. SF	Height (ft)	Avg. minutes to change air*	Volume (ft3)	CFM	m^2	comparable facility function	Pressure (iwg)	Pressure (Pa)	Q (m^3/s)	fantype = plug, tube, or prop	A-weighted PWL (for CadnaA inputs) 63	125	250	500	1000	2000	4000	8000	OA dB
return air fans in building rooftop AHUs:																						
	Single-Story MNWD	12000	10800	21	8	226800	28350	1004	warehouses	2	500	13	plug	59	71	72	73	70	63	57	52	**78**
	pump station MNWD	900	810	21	8	17010	2126.25	75	warehouses	2	500	1	plug	48	60	61	62	59	52	46	41	**67**
													fan or AHU cabinet liner/interior attenuation (excludes inlet/outlet PWL split, already in calcs above:	2	3	4	5	6	8	10	10	

*from 2-10 minute range for "warehouses" per Loren Cook's "Engineering Cookbook", 1999 edition, p. 41

ACCs (air-cooled chillers on rooftops):

Building Interior Comfort

with or without sound insulation? (enter Y/N): y

	tons	LWA	unweighted PWL (dB) per OCBF (Hz) at full load (100%) 63	125	250	500	1000	2000	4000	8000
Bryant BH16-018 (no sound blanket)	1.5	67	66.2	66.2	63.9	63.8	62.3	58.4	56.4	50.3
Bryant BH16-024 (no sound blanket)	2	71	65	65	63.7	63.4	68.5	64.7	58.7	52.8
Bryant BH16-036 (no sound blanket)	3	71	68.2	68.2	66.4	67.5	68.4	59.6	58.2	52.4
Bryant BH16-048 (no sound blanket)	4	71	68.4	68.4	67.7	69.7	67.6	59.4	56.4	50
Bryant BH16-060 (no sound blanket)	5	69	63.7	63.7	65.4	67.3	64.9	58.3	56.2	51.9
Daikin AGZ-E 30 (w/out sound insulation)	30	85	84	84	83	84	77	75	74	70
Daikin AGZ-E 40 (w/out sound insulation)	40	85	84	84	83	84	77	75	74	70
Daikin AGZ-E 50 (w/out sound insulation)	50	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 60 (w/out sound insulation)	60	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 70 (w/out sound insulation)	70	87	85	85	85	86	80	77	75	70
Daikin AGZ-E 80 (w/out sound insulation)	80	88	88	85	87	86	81	81	77	71
Daikin AGZ-E 90 (w/out sound insulation)	90	88	88	87	87	86	83	80	77	71
Daikin AGZ-E 120 (w/out sound insulation)	120	89	91	85	88	86	82	81	79	72
Daikin AGZ-E 240 (w/out sound insulation)	241	94	94	88	91	90	91	84	82	75

data for models "without sound insulation" or no "sound blankets"

LWA	63	125	250	500	1000	2000	4000	8000
68	66.2	66.2	63.8	64.1	64.6	59.9	57.7	53.6
72	63.4	63.4	63.3	63.3	70.4	64.5	59.3	55.5
72	67.7	67.7	66.8	68.1	69.9	62.8	60.3	55.2
73	67.5	67.5	67.8	70.1	70.6	63.1	58.5	53.3
70	61.7	61.7	65.6	68.1	65.8	59.8	58.4	56.1
88	92	91	88	87	83	78	73	68
89	92	91	90	88	84	79	74	69
90	93	93	91	89	85	79	74	69
91	94	93	94	89	86	81	76	71
92	95	95	94	89	87	81	76	71
92	95	95	95	89	87	81	76	71
93	94	95	92	91	89	83	81	81
95	93	96	92	92	90	84	84	82
100	98	98	98	95	96	90	90	86

data for models "with sound insulation" or "sound blankets"

LWA	63	125	250	500	1000	2000	4000	8000
67	66.2	66.2	63.9	63.8	62.3	58.4	56.4	50.3
71	65	65	63.7	63.4	68.5	64.7	58.7	52.8
71	68.2	68.2	66.4	67.5	68.4	59.6	58.2	52.4
71	68.4	68.4	67.7	69.7	67.6	59.4	56.4	50
69	63.7	63.7	65.4	67.3	64.9	58.3	56.2	51.9
85	84	84	83	84	77	75	74	70
85	84	84	83	84	77	75	74	70
87	85	85	85	86	80	77	75	70
87	85	85	85	86	80	77	75	70
87	85	85	85	86	80	77	75	70
88	88	85	87	86	81	81	77	71
88	88	87	87	86	83	80	77	71
89	91	85	88	86	82	81	79	72
94	94	88	91	90	91	84	82	75

actual percent of GSF occupied: 90

Phase	Building Tag	GSF	Avail. SF	comparable facility function	Avg. GSF per ton*	tons of refrig.	Approx. Qty. of ACCs	tons per ACC	Approx. Total PWL (dBA)	unweighted PWL (dB) per OCBF (Hz) at full load (100%) 63	125	250	500	1000	2000	4000	8000
	Single-Story MNWD	12000	10800	Light Manufacturing	200	54.0	2	27	**72**	67	67	68	70	68	61	59	55
	pump station MNWD	900	810	Light Manufacturing	200	4.1	2	2	**74**	68	68	67	66	72	68	62	56

*based upon "lo" value per Loren Cook's "Engineering Cookbook", 1999 edition, pp. 59-60

Area Sources

Name	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction	Attenuatio	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	Day	Special	Night				Number		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(ft²)	(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night
Main Bldg HVAC		MainHVAC	78.9	78.9	78.9	56.6	56.6	56.6	Lw	ACC++AHU		0	0	0							0	(none)			
Pump Station HVAC		PumpHVA	75.3	75.3	75.3	59.5	59.5	59.5	Lw	pumpACC++pumpAHl		0	0	0							0	(none)			

Sound Levels (local)

Name	ID	Type	Oktave Spectrum (dB)											Source
			Weight.	31.5	63	125	250	500	1000	2000	4000	8000	A	lin	
Main Bldg AHU	AHU	Lw	A	59	59	71	72	73	70	63	57	52	78	99	L. Cook's "Engineering Cookbook" p.41 - 1999
Main Bldg ACC	ACC	Lw		67	67	67	68	70	68	61	59	55	71.8	76	L. Cook's "Engineering Cookbook" p.59-60 - 1999
Pump Station ACC	pumpACC	Lw		68	68	68	67	66	72	68	62	56	74.7	77.2	
Pump Station AHU	pumpAHU	Lw	A	48	48	60	61	62	59	52	46	41	67	88	

Buildings

Name	M.	ID	RB	Residents	Absorptior	Height Begin (ft)	
RO Pump Station Main		ROmain	x	0		21	r
Main Bldg		Main	x	0		21	r

Cylinder

Name	M.	ID	Absorptior	Center x (ft)	Center y (ft)	Radius (ft)	Height (ft)	
RO Pump Station Cyl		ROcyl		580.25	511.82	5.64	21	r